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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
AIR FORCE SYSTEMS COMMAND

RESEARCH PROPOSAL
QUARTERLY STATUS REPORT

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AFOSR TR. 89-1211

APRIL - JUNE 1989

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE

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RESEARCH PROPOSAL
QUARTERLY STATUS REPORT

JULY 1989

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TECHNICAL DOCUMENTS SECTION
AFOSR/XOTD
BOLLING AFB, DC 20332-6448
(202) 767-4912 or AUTOVON 297-4912*

INTRODUCTION

This Research Proposal Status Report is published quarterly as of March, June, September, and December of each year. It lists all the research proposals received by the Air Force Office of Scientific Research (AFOSR) in the six month period prior to the date of this report. Normally, decisions and actions are made within six months after receiving a research proposal. The action taken (i.e. Initiated, Declined, or Withdrawn) will be listed in this Report. The report is divided into two parts: Part I is the Institution Index which lists the proposals received, alphabetically by institution. Part II is the AFOSR Directorate Index in which the proposals received are listed alphabetically by Directorate and alphabetically by AFOSR Program Manager within the Directorate. Any questions regarding this report, please contact Ms. Debra Tyrrell at (202) 767-4912 or Autovon 297-4912.

PURPOSE

The purpose of the quarterly report is to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Users of the report should read and clearly understand that:

Declined proposals should not necessarily be considered as scientifically unacceptable since many declinations result from a lack of funds or from special programmatic emphases.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Director of Laboratories, Air Force Systems Command.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from unsolicited proposals originated from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, i.e., College/University, Company, etc., at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposer's request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATED - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

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5017

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PART I

INSTITUTION INOEX (1 APR 89 - 30 JUN 89)

INSTITUTION INDEX C 1 APR 89 - 30 JUN 89
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

PAGE 1

PAGE 1

INSTITUTION

STATISTICS

AIR FORCE AEROSPACE MEDICAL RESEARCH CENTER
AIR FORCE ENGINEERING & SERVICES CENTER
AIR FORCE INSTITUTE OF TECHNOLOGY
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AMERICAN MATHEMATICAL SOCIETY
AMERICAN SOCIETY FOR MICROBIOLOGY
AMERICAN STANDARDS TESTING BUREAU, INC.
ANALYTIC SCIENCES CORPORATION
ANTARPIX CORPORATION
APPLIED & THEORETICAL MECHANICS INC
APPLIED RESEARCH CORPORATION
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ASTRON RESEARCH & ENGINEERING
ATLANTA UNIVERSITY

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AWARE, INC.

BALL SYSTEM ENGINEERING DIVISION
BOSTON COLLEGE
BOSTON UNIVERSITY

MITTELMAN
ACAMS
CRCWSCN

NAKAMURA
BCIA
KHAN
ORR
LAWTON
RESENICKOFF
BOWMAN
BAKSHI
CHEN

PRESENTATION

НЕВСКОЙ ЛИ

WILLIAMS

CHANDOY

DIMITAKIS

KLAUSS

LAST NAME	FIRST NAME	MIDDLE NAME	PROPOSAL STATUS
INVESTIGATOR	LAST NAME	FIRST NAME	PM NAME
WINTER	GIBOR	JIMMY	ROBISON
	FAINETTE	ROBERT	CERVERY
	FAIMAN		EDMUND
TEBBE	FRED	N	EDMUND
LAINÉ	RICHARD	89-XO-011	ULRICH
MAXWELL	JAMES	89-XO-012	ULRICH
KAFLAN	ALAN	89-NC-256	NACHMAN
SILVER	SIMON	89-NC-259	NACHMAN
SCLOANKIN	ALEXANDER	89-NM-560	HOLLAND
INC.	KEITH	89-NL-197	CERVERY
HUTCHINSON	TERRY	89-NM-585	CERVERY
KLAZ	JGELLE	89-NL-253	CERVERY
CRAMPNEY	A.	89-NM-555	NACHMAN
DRLKIER	KRISHAN	89-NC-267	STOBIE
BAJAJ		89-NC-245	WODARCZ
MITTELMANA	HANS	89-NA-215	SAKELL
ACAMS	GEORGE	93-NE-296	WEINSTO
CRCWSN	ANDREW	89-NE-239	LITTON
NAKAMURA	TAKASHI	89-NE-280	LIOTON
BCIA	KHABENA	89-NM-488	NELSON
KHAN	ISHRAT	89-NC-270	DAVIS
CCR	RICHARD	89-NC-276	ULRICH
LAWTON	WAYNE	89-NC-277	ULRICH
RESNIKOFF	HOWARD	89-NA-251	TISHKOF
BOWMAN	C.	89-NC-277	AMOS
BAKSHI	PRADIP	89-NC-226	ULRICH
CHEN	CHIM-FAN	89-NC-634	BAROUCH
GROSSBERG	STEPHEN	89-NC-569	NACHMAN
KCFELL	NANCY	89-NC-626	BAROUCH
LEMPICKI	ALEXANDER	89-NC-542	SCHLOSS
NAGEM	RAYMOND	89-NC-542	WAKSMAN
SANDRI	GUIDO	89-NC-266	TANGNEY
RCSENBLUM	MYRON	89-NC-207	TANGNEY
TRIVEDI	S.	89-NC-277	NACHMAN
HERSHCOVITCH	ADY	89-NM-609	NACHMAN
PASCIAK	JOSEPH	89-NP-174	SCHLOSS
WILLIAMS	G	89-NP-174	AMOS
CLIU	JOSEPH	89-NC-250	SAKELL
CHANDY	K MANI	89-NE-265	ULRICH
CRCSS	MICHAEL	89-NM-540	WEINSTO
DIMOTAKIS	PAUL	89-NM-540	SMITH
GODMAN	RODNEY	89-NC-258	BURGGR
KNAUSS	W	89-NC-226	MCMICHA
MARBLE		89-NP-501	NELSON
		69-NM-583	NACHMAN
		89-NA-225	MELIN
		89-NE-234	GILITES
		89-NA-325	MARITOS
		49-NA-283	TISHKOF

GIFOR	JIMMY	A
CERNETTE	ROBERT	A
FAIMAN		A
TERBE	FRED	A
LAINE	RICHARD	A
MAXWELL	JAMES	A
KAFLAN	ALAN	A
SILVER	SIMON	A
BLONKIN	ALEXANDER	A
HUTCHINSON	KEITH	A
KLUZ	TERRY	A
CHAMPNEY	JGEILLE	A
DRLKIER	A.	A
BAJAJ	KRISHAN	A
MITTELMANA	HANS	A
ACAMS	GEORGE	A
CREWSN	ANDREW	A
NAKAMURA	TAKASHI	A
BCIA	KHABENA	A
KHAN	ISHRAT	A
ORR	RICHARD	A
LALTON	WAYNE	A
RESNIKOFF	HOWARD	A
BOWMAN	C.	A
BAKSHI	PRADIP	A
CHEN	CHIM-PAN	A
GROSSBERG	STEPHEN	A
KCFELL	NANCY	A
LEMPICKI	ALEXANDER	A
NAGEM	RAYMOND	A
SANDRI	GUIDO	A
RCSENBLUM	MYRON	A
TRIVEDI	S.	A
HERSHCOVITCH	ADY	A
PASCIAK	JOSEPH	A
WILLIAMS	G	A
C LIU	JOSEPH	A
CHANDY	K MANI	A
CROSS	MICHAEL	A
DIMOTAKIS	PAUL	A
GODMAN	RODNEY	A
KNAUSS	W	A
MARBLE	FRANK	A
89-XO-025		
89-NL-253		
89-XO-011		
89-XO-012		
89-NC-256		
89-NC-259		
89-NM-560		
89-NM-585		
C MOLLAND		
C CERVERNY		
EDMUND		
EDMUND		
ULRICH		
NACHMAN		
STOBIE		
WODARCZ		
SAKELL		
WEINSTO		
C CERVERNY		
89-NM-555		
89-NC-267		
89-NC-245		
89-NA-215		
93-NE-296		
89-NE-239		
89-NE-280		
89-NC-422		
89-NC-270		
89-NC-276		
89-NC-277		
89-NA-251		
89-NA-277		
89-NC-226		
89-NM-634		
89-NM-569		
89-NM-626		
89-KE-263		
89-NP-166		
89-NL-207		
89-NL-277		
89-NM-609		
89-NP-179		
89-NA-269		
89-NA-235		
89-NC-250		
89-NE-265		
89-NP-174		
89-NM-540		
89-NC-258		
89-NA-226		
89-NM-601		
C 69-NM-583		
E 89-NA-225		
P 89-NE-294		
T 89-NA-325		
C 89-NA-283		
E 89-NE-225		
M 89-NA-225		
G 89-NE-294		
W 89-NA-325		
H 89-NA-283		
I 89-NA-225		
J 89-NE-294		
K 89-NA-325		
L 89-NA-225		
M 89-NE-294		
N 89-NA-325		
O 89-NA-225		
P 89-NE-294		
Q 89-NA-325		
R 89-NA-225		
S 89-NE-294		
T 89-NA-325		
U 89-NA-225		
V 89-NE-294		
W 89-NA-325		
X 89-NA-225		
Y 89-NE-294		
Z 89-NA-325		

INSTITUTION INDEX (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	P/M NAME
CAMBRIDGE UNIVERSITY (CAVENOIS LAB)	MARTIN	SARA		F	89-NP-190	A	RADOSKI
CAMBRIDGE UNIVERSITY (TRUMPPING ST)	ZIRIN	HAROLD			89-NP-170	A	RADOSKI
CARNEGIE-MELLON UNIVERSITY	AMCS	ROGER			89-NC-288	A	DAVIS
	BRAY	K N.			89-NA-211	A	TISMKOFF
AARONSON	MUBERT		I		89-NE-217	A	ROSENSTEIN
CASASENT	DAVID				89-NE-301	A	GILES
HCHE	JAMES				89-NE-230	A	ROSENSTEIN
MARAJAN	S.				89-NE-247	A	LITTCN
T THOMPSON	ANTHONY				89-NE-264	D	ROSENSTEIN
WAIAEL	ALEX				89-NE-264	D	GILES
FIGUEROA	LUDWIG				89-NA-217	A	BOYCE
CASE WESTERN RESERVE UNIVERSITY					89-NA-218	A	BOYCE
					89-NA-219	D	BOYCE
TAVAKCLI	AMIR				89-NA-249	D	BOYCE
WHANG	YUN		C		89-HP-186	D	RADOSKI
MILLER	JAMES		D		89-NC-254	D	TANGNEY
GARRETT	BRUCE		C		89-NC-284	D	DAVIS
OLSEN	RANDALL		B		89-NE-277	A	WEINSTOCK
ALFANC	ROBERT		R		89-NE-236	A	WITT
					89-NE-285	A	GILES
					89-HP-160	A	SCHLOSSBER
BRCWN	MARK				89-NM-578	D	BAROUCH
ALFANO	ROBERT		R		89-NE-271	D	WEINSTOCK
AMMAR	HANY				89-NM-504	D	WEINSTOCK
BAROUCH	EYTAN				89-XO-022	A	CAVENDER
DICELLO	JCHN		F		89-NE-235	A	WITT
GLAUSER	MARK				89-NA-227	A	MCMICHAEL
STEVENS	DAVID		J		89-NA-240	A	WU
ADAMS	WARREN		P		89-NM-500	A	GLASSMAN
OSHER	STANLEY				89-NM-648	A	BAROUCH
BUNGE	ANNETTE		L		89-NL-225	A	CERVERY
POCRE	AUBREY				89-NM-640	A	GLASSMAN
STILLE	JCHN		B		89-NC-249	A	ULRICH
EISENTHAL	KENNETH		K		89-NC-254	A	MATUSZKO
					89-NC-262	A	MCMICHAEL
TAPOR	MICHAEL				89-NA-265	A	MCMICHAEL
CALCOTE	H.		F		89-NA-275	A	BIRKAN
PRYWES	NOAH		S		89-NM-489	A	WAKSMAN
LIN	JIGUAN				89-NA-212	A	AMOS
ANANTHARAW	VENKAT				89-NM-646	A	CROWLEY
ASFCRCFT	NEIL		H		89-NE-275	D	WEINSTOCK
CARPENTER	BARRY		K		89-NM-638	A	HOAROCZYK
FINE	TERRENCE		L		89-NA-252	A	NACHMAN
JENKINS	JAMES				89-NA-271	A	HARITOS
MCCBN	FRANCIS				89-NA-327	A	AMOS
STEEN	P.		H		89-NH-534	A	NACHMAN
STEENHUIS	TAMMO		S		89-NL-224	A	CERVERY

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
CARNEGIE COLLEGE	MULCHES	RUSSELL	P	89-NC-304	A	MATUSIKO
CAVIC SARNOFF RESEARCH CENTER	PEARSON	JOHN	C	89-NL-279	A	TANGNEY
WILLIAMS	RICHARD			89-NC-297	A	STOBIE
COREN	FERNAND			89-NM-515	A	WAKSMAN
CREXEL UNIVERSITY				89-N-M-625	A	NACHMAN
DUKE UNIVERSITY	WANG	ALBERT	S	89-N-A-305	A	HARITOS
	OI GILLIO	RICHARD	T	89-NL-231	A	CERVERY
EAST CAROLINA UNIVERSITY	MADEY	JCHN	M	89-N-P-168	A	SCHLOSSBER
EAST TEXAS STATE UNIV.	TERRIAN	DAVID	M	99-NL-260	A	BERRY
MIN	DR KWANG			89-XC-018	A	CAVENDER
EASTMAN KODAK CO.	PEANER	KWANG	S	89-X-C-019	A	CAVENDER
	THOMAS	THOMAS	L	89-N-C-255	A	ULRICH
ECODYNAMICS RESEARCH ASSOCIATION INC	SCACHE	PATRICK	J	89-NC-257	A	ULRICH
EMORY UNIVERSITY	KALFMAN	MYRON	M	89-N-M-526	A	CROWLEY
LIA			C	89-NA-303	A	BIRKAN
HASSELMAN	TIMOTHY			99-NA-295	A	TISHKOFF
HUFFMAN	FREDERICK			89-NA-311	A	AMOS
SU	TSUNG-CHOW			89-N-M-611	A	WAKSMAN
PFEFFER	RICHAUD			89-NA-250	A	AMOS
CRILY	MARK			89-N-C-293	A	STOBIE
HUFFMAN	KARLA			89-N-C-225	A	ULRICH
TARAK	DANIEL			89-N-M-647	A	GLASSMAN
ATLURI	SATYA			89-N-M-608	A	WAKSMAN
FERRI	ALOO			92-NA-340	A	AMOS
PARKER	R.			89-N-A-270	A	AMOS
WEISS	GIDEON			89-N-M-501	A	GLASSMAN
BERGER	MARC			89-N-M-513	A	BAROUCH
FLANNERY	M.			89-N-P-156	A	NACHMAN
LLEWELLYN				89-N-M-637	A	KELLEY
NEWHAUSER	D.O.			89-N-M-637	A	GLASSMAN
STOCK	GEORGE			89-N-M-546	A	GLASSMAN
ASTON-JONES	STUART			89-NE-253	A	SCHICLER
	GARY			89-NL-190	A	BERRY
CHAPIN	JOHN			89-NL-223	A	BERRY
MIAMEE	A.			89-NL-205	A	BERRY
PRELIETT	PAUL			89-N-M-506	A	NACHMAN
RAM	RAM			89-N-M-521	A	CROWLEY
BRUCKETT	ROGER			89-N-M-505	A	GLASSMAN
DAVIDOV	DAN			89-N-M-635	A	NACHMAN
HAHNEMANN UNIVERSITY				99-N-C-243	A	ULRICH
HAMPTON UNIVERSITY				89-N-C-252	A	ULRICH
HARVARD UNIVERSITY				89-NL-223	A	CERVERY
HEBREW UNIVERSITY				89-N-P-159	A	SCHLOSSBER
HUGHES AIRCRAFT CO	MEIRI	HALINA		89-N-P-205	A	SCHLOSSBER
HUGHES RESEARCH LABORATORIES	PEPPER	DAVID		89-N-C-261	A	CAVIS
IIT RESEARCH INSTITUTE	MFARLANE	RCSS		89-N-C-283	A	CAVIS
	SHELSLN	ALAN		99-N-E-221	A	DAVIS
IDAHOC UNIVERSITY	BITTERWOLF	THOMAS		89-N-E-265	A	DAVIS
	CRAFCRC	RCNALC				CERVERY

INSTITUTION INDEX (1 APR 85 - 30 JUN 85)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
ILLINOIS INSTITUTE OF TECHNOLOGY	SHREEVE	JEANIE	M	89-AC-251	A	MATUSZKO
	MARVASTI	FAROUKH		89-NM-502	A	NACHMAN
	NAGIB	HASSAN		89-NA-232	A	POMICHAEL
	WARK	CANDACE	E	89-NA-323	A	MCMICHAEL
INDIANA INSTITUTE OF TECHNOLOGY	SIADKOWSKI	ANDRZEJ		89-NM-623	C	NACHMAN
INDIANA UNIVERSITY RESEARCH FOUNDATION	WATSON	CHARLES	S	89-NL-210	C	TANGNEY
INDIANA UNIVERSITY-PURDUE UNIV AT INCELS	WITZMANN	FRANK	A	89-NL-226	C	CERVENY
INNOVATIVE RESEARCH INC.	PASIRANOEF	MØHSEN		89-NM-557	C	WAKSMAN
INST. OF ELECTRICAL & ELECTRONICS ENGRG	WAGEMANN	ROBERT	T	89-NP-185	C	SCHLOSSBER
INSTITUTE OF ELECTRICAL & ELECTRONIC ENG INC	MILSTEIN	LAURENCE	B	89-NW-545	A	BAROUCH
INSTITUTE OF MATHEMATICAL STATISTICS	BILLARD	LYNNE		89-NM-576	A	BAROUCH
	PRABHL NG	N.*	U	89-NM-548	A	BAROUCH
IOWA STATE UNIV CF SCIENCE AND TECH	CHEUK-YIU			89-AC-246	C	WODARCZYK
	KLAUS			89-NC-291	A	DAVIS
IOWA STATE UNIVERSITY DEPARTMENT OF MATH	J			89-NA-320	A	AMOS
JET PROPULSION LABORATORY	KLEIMANN	WOLFGANG		89-NM-482	A	BAROUCH
	LAWTON	TERI	B	89-NL-255	A	TANGNEY
	PINEADA	FERNANDO	J	89-NM-606	A	WAKSMAN
	MCKHANN	GUY		89-NL-242	A	FREGLY
	MEYER	GERARD	G	89-NM-497	A	GLASSMAN
	RUGH	WILSON	J	89-NM-587	A	CROWLEY
	RUST	DAVID	M	89-NP-200	A	RAODSKI
	MOROI	DAVID	S	89-NP-182	A	SCHLOSSBER
	VARGA	RICHARD	S	89-NM-536	A	NELSON
	AKELLA	JAGAN		89-NC-265	A	DAVIS
	GRACE	NABIL		89-NA-248	A	AMOS
	WALKER	JAMES	D	89-NM-469	A	NACHMAN
KENT STATE UNIVERSITY	CALAWA	ARTHUR	R	89-NE-267	A	WITT
	WAXNER	ALLEN	M	89-NL-240	A	TANGNEY
	WITHERS	RICHARD	S	89-NE-308	A	WEINSTOCK
	KACISH	ABRAHAM		89-NM-633	A	NACHMAN
	CHARALAMPPOULAS	TRIFON		89-NA-285	A	TISHKOFF
	CLAUDIO	RINN	M	89-NL-227	C	CERVENY
	MELETIS	E.	I	89-NE-256	C	SCHIOLER
	BARRON	EMMANUEL	N	89-NM-627	A	CROWLEY
	BADDLEY	ALAN	O	89-AL-256	A	FREGLY
	DUNCAN	JCHN	C	89-NL-192	A	DAVIS
	EHLEHT	THOMAS	C	89-NA-302	A	TRISHKOFF
	VERNEKER	V. R. PAI		89-AC-285	A	DAVIS
	ANTONIADIS	DIMITRI	A	89-NE-216	A	WITT
	ATKESON	CHRISTOPHER	G	89-NE-231	A	GILES
	BEKEFI	GEORGE		89-NP-193	A	BARKER
	BERTSIMAS	DMITRIS	J	89-NM-564	A	GLASSMAN
	BÜYÜKOZTÜRK	ORAL		89-NA-315	A	WU
	CHANG	TCM		89-NC-224	A	STOBIE
	DRESSELHALS	GENE	F	89-XQ-016	A	CAVENDER
	ORELA	MARK		89-NA-243	A	MELIN
	DRESSELHALS	MILDRED	S	89-AC-260	C	ULRIC

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
DURLACH	NATHANIEL	I		89-NL-283		TANGNEY
EPSTEIN	ALAN	H		89-NA-273	A	HELIN
GREITZER	E			89-NA-299	A	HELIN
JORDAN	EDWARD	H		89-NA-330	A	HELIN
LIEBERMAN	MICHAEL	I		89-NE-293		GILES
SACOWA	HARRIS	R		89-NL-263		BERRY
SEYFERTH	OCNALC	R		89-NE-249		LITTON
TECROW	OETEMAR			89-NC-301	A	MAUSZKO
THOMAS	PAUL	H		89-XO-013	A	CAVENDER
WILSKY,	EDWIN	L		89-NC-253	A	ULRICH
MATERIALS RESEARCH SOCIETY	ALAN	S		89-NM-565	A	CROWLEY
BALLANCE	JOHN	B		89-NE-289		WITT
KARASZ	FRANK	E		89-NE-276	A	SCHIOLER
LARK	JAY	S		89-NC-268	A	ULRICH
SASTRY	S. M. L.			89-NM-621	A	WAKSMAN
WEIZZEN	RICHARD	H	S	89-NE-218	A	ROSENSTEIN
DENISON	MICHAEL			89-NA-322		MCMICHAEL
FALCO	RCBERT			89-NL-269		CMICHAEL
KCCHEESFAHANI	MANOOCHEH			89-NA-263		CMICHAEL
MACCLUER	CHARLES	R		89-NM-554		CROWLEY
SMYER	WILLIAM	N		89-NM-492		GLASSMAN
SCNI	B			89-NA-274		SAKELL
FORD	WAYNE	K		89-NE-251		LITTON
G. P. VAN KUIJK	FREDERIK	J		89-NL-267		CERVENTY
LAPEYRE	GERALD	J		89-NE-246		LITTON
YOD	YEAR	E		89-NM-563		BAROUCH
CARR	LARRY			89-NA-306	A	HELIN
OUTLAH	R			89-NC-264	A	BURGRAF
MANKA	ROBERT			89-XO-023	A	CAVENDER
COX	LARRY			89-NM-598	A	NELSON
LONG	ROBERT	S		89-NP-198	A	SMITH
MILES	VERNON			89-XO-021	A	ROBISON
ZWILSKY	KLAUS	H		89-NC-306		ULRICH
CASSASA	MICHAEL	P		89-NC-281		DAVIS
MCCLELLAND	JABEZ	J		89-NP-158		KELLEY
WINELAND	D. J.			89-NP-206	A	STOBIE
HECHT	ALAN	D		89-NA-290	A	HELIN
LIGRANI	PHILLIP	H		89-NA-264		BARKER
ARCHLAND	HARVEY	L		89-NP-179	A	BARKER
STACKPOLE	LAWRIE			89-NP-197	A	ROBISON
HRUSHESKY	WILLIAM	J		89-NL-280	A	BERRY
KALSNER	STANLEY			89-NL-282		BERRY
KONIG	JAMES	I		89-NL-279		BERRY
LEEMAN	SUSAN	E		89-NL-281		BERRY
CULLEN	EDWARD	I		89-NL-219		BERRY
SARBAN	ESTHER	L		89-NL-215		BERRY
NEW YORK ACADEMY OF SCIENCES						
NAVAL POST GRADUATE SCHOOL						
NAVAL RESEARCH LABORATORY						
NEW YORK MEDICAL COLLEGE						

INSTITUTION INDEX (1 APR 85 - 30 JUN 89)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

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STATE = "A" = ACCEPTED, "D" = DECLINED, "N" = UNKNOWN

INSTITUTION

INVESTIGATOR PROPOSAL STATUS PM NAME

NEW YORK STATE COLLEGE OF CERAMICS	RICHARD	M	89-NE-281
NEW YORK UNIVERSITY	LLOYD	M	89-NL-222
NIELSEN ENGINEERING AND RESEARCH CO	RCBERT	V	89-NM-490
NORTH CAROLINA STATE UNIVERSITY	STEPHANE	M	89-NM-613
NORTH DAKOTA STATE UNIVERSITY	TING	LU	89-NW-494
NORTHEASTERN UNIV.	NIXON	DAVID	89-NA-216
NORTHWESTERN UNIV.	ELMAGHRABY	SALEM	89-NW-575
KHEYFETS	ARKADY	ARKADY	89-XC-017
LINK	YUM-LANG	YUM-LANG	89-NC-302
MULLIGAN	JAMES	C	* 89-NA-313
RUGGLES	GARY	A	89-NE-291
YAZDANI	FRANK	A	89-NA-258
KCKAR	MIECZYSLAW	M	89-NM-607
SANKOFF	S	G	89-NA-257
SELYTSCHK	TED	F	89-NL-250
DISTERHOFT	JCHN	F	89-NA-253
KEER	L	H	89-NC-241
MARKS	LAURENCE	D	89-NE-242
PESHKIN	NUGGAEK	A	89-NA-220
SHAH	S	P	89-NC-271
DE LA CRUZ	MONICA OLVERA	H	89-NE-219
BESMANN	T.	M	89-NE-297
ECKMILLER	ROLF	H	89-XO-014
PACLETTI	CHUCK	H	89-NM-547
CHANDRASEKARAN	B	A	89-NA-261
HERBERT	THORWALD	H	89-NA-324
OZGUNER	UNIT	H	89-NE-243
FUSUNT	FUSUNT	H	89-NL-272
MELINDA	MELINDA	H	89-NA-259
GARY	GARY	H	89-NL-243
JAMES	JAMES	A	89-NA-221
OSAMA	OSAMA	A	89-NM-507
STEPHEN	STEPHEN	J	89-NM-522
CURRIS	LAWRENCE	R	89-NL-266
HARDING	JCHN	H	89-NA-328
AKRITAS	MICHAEL	G	89-NM-567
BABU	GUTTI	J	89-NM-628
BRASSEUR	J	G	89-NA-229
OLLIKRAVICH	GEORGE	S	89-NM-644
LAKSHMINARAYANA	B	S	39-NA-222
HITCHELL	JCHN	D	89-NC-234
PARDALNS	PANOS	H	89-NM-524
RLD	C	C	89-NM-508
SANTAVICCA	DOMENIC	A	89-NA-312
TRESSLER	RICHARD	E	89-NE-228
YAFBRUGH	WALTER	A	89-NC-275
YAVUZKURT	S	S	89-NA-223

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
PHYSICAL DYNAMIC INC	PCCNEY	WALTER	N	89-NE-273	WEINSTOCK	
PHYSICAL SCIENCES INC	MARINELLI	W	J	89-NC-295	DAVIS	
POLYTECHNIC INSTITUTE OF NEW YORK	FELSON	LEOPOLD	B	89-NE-303	WEINSTOCK	
PRINCETON UNIVERSITY	KLIMARDT	ERICH	E	89-NP-176	SMITH	
PRINCETON UNIVERSITY	GASSMAN	IRVIN	E	89-NA-301	TISHKOFF	
HOBEL	BARTLEY	G		89-NL-220	BERRY	
KARNIADAKIS	GEORGE	E		89-NA-325	SAKELL	
KUNG	SUN-YUAN			89-NE-273	GILES	
LAI	K	RICHARD	C	89-NA-296	TISHKOFF	
MILES	MILES	A		89-NA-291	TISHKOFF	
SPITS	FLEETER	SANFORD	J	89-NA-228	MCMICHAEL	
PURDUE UNIVERSITY	VITERBI	ANDREW	J	89-NA-316	A	
QUALCOMM, INC.	BERNFELD	MARVIN		89-NM-639	NACHMAN	
RAYTHEON CO	CCLE	JULIAN	O	89-NM-574	NACHMAN	
RENNSELAER POLYTECHNIC INSTITUTE	ECKER	JOSEPH	G	89-NM-531	GASSMAN	
	MCLAUGHLIN	JOYCE	R	89-NM-517	CROWLEY	
	NAGAMATSU	HENRY	T	89-NA-239	SAKELL	
RICE UNIVERSITY	THOMPSON	JAMES	R	89-NM-524	BAROUCH	
ROCKWELL INTERNATIONAL	MALMUTH	N.	O	89-NM-577	NACHMAN	
ROME AIR DEVELOPMENT CENTER	SELER	T.A.		89-NC-286	WODARCZYK	
RUTGERS - THE STATE UNIVERSITY	BRIMMAR	RICHARD		89-NM-572	A	
RUTGERS - THE STATE UNIVERSITY	TAYLOR	JEAN	E	89-NM-600	NELSON	
RUTGERS - THE STATE UNIVERSITY	HAMMER	PETER	L	89-NM-597	A	
RUTGERS - THE STATE UNIVERSITY (ENGR)	VOGELIUS	MICHAEL	S	89-NM-614	GASSMAN	
RUTGERS - THE STATE UNIVERSITY	BAZUM	HAIM		89-NM-605	A	
RUTGERS - THE STATE UNIVERSITY	KNIGHT	DOYLE	D	89-NA-276	AMOS	
SRI INTERNATIONAL	PELZ	RICHARD	B	89-NA-337	SAKELL	
	BAE	YOUNG	K	89-NC-282	MCMICHAEL	
	BARNARD	STEPHEN		89-NE-224	DAVIS	
	HUESTIS	D. L.		89-NP-188	GILES	
	BALM	JCSEPH		89-NA-308	A	
	GRUBIN	HAROLD	L	89-NE-225	BARKER	
	MEFFRA	RAMAN		89-NA-300	BIRKAN	
SCIENCE APPLICATIONS INC	HARRIS	DENNIS	G	89-NC-263	WITT	
SCIENTIFIC RESEARCH ASSOCIATES, INC.	HUGGETT	ROBERT	J	89-NL-252	AMOS	
SCIENTIFIC SYSTEMS INC.	WRIGHT	JOHN	R	89-NL-253	WODARCZYK	
SOCIETY FOR OPTICAL/QUANTUM ELECTRONICS	KENNINGTON	JEFFERY	L	89-NM-527	CERVENY	
SOCIETY OF ENVIRON. TOXICOLOGY & CHEM.	KRUGER	CHARLES	H	89-NP-207	GASSMAN	
SOUTHEASTERN OKLAHOMA ST U-PHYS SCI EPT	BOWMAN	CRAIG	T	89-NA-292	SMITH	
SOUTHERN METHODIST UNIVERSITY	MACIX	RCBERIS	J	89-NC-229	TISHKOFF	
STANFORD UNIVERSITY	MAANA	ZOHAR		89-NM-642	BURGRAF	
	PINSKY	PETER		89-NA-254	WAKSMAN	
	QUATE	CALVIN	F	89-NE-299	HARITOS	
	REYNOLDS	YCAV		89-NA-236	LITTON	
	SPACHAW	RICHARD	E	89-NL-247	SAKELL	
	SNCW				WAKSMAN	
					TANGNEY	

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
STATE UNIVERSITY OF NEW YORK	MILES	RONALC		89-NA-334	A	AMOS
	PRASAD	PARAS		89-NC-287	A	DAVIS
	LAWSON	DAVID		89-NE-292	C	GILES
STETSON UNIVERSITY	BLOOM	STEVEN	L	89-NM-537		WAKSMAN
STEVENS INSTITUTE OF TECHNOLOGY	NICHOLSON	DAVID	H	89-NM-616		NACHMAN
	SEIDL	MILOS		89-NP-183	A	KELLEY
SWARTHMORE COLLEGE	SHEPPARD	KEITH	G	89-NE-250		LITTON
TECHNION RSCH & DEVELOPMENT FOUNDATION	KELLMAN	PHILLIP	J	89-NL-244		TANGNEY
TELDES RESEARCH	CCHEN	JACOB		89-NA-260		MCMICHAEL
TEMPLE UNIVERSITY SCHOOL OF MEDICINE	RSESENSCHEIN	STANLEY	J	89-NM-622	A	WAKSMAN
	BISWAS	SAROJ	K	89-NM-523		CROWLEY
	SACHEGHIPOUR		K	89-NA-272		AMOS
	SENDALLA	H.		89-NM-530		CROWLEY
TEXAS A AND M RESEARCH FOUNDATION	ALLEN	DAVID	H	89-NA-214		AMOS
	CHEN		K	89-NP-163	A	BARKER
	SCHOBEIRI	T.	H	89-NA-208		HELIN
TEXAS A AND M UNIVERSITY	CARROLL	R.	J	89-NM-562		BAROUCH
	OCHOA	DIZDEN	A	89-NA-278		AMOS
	SCHAPERY	R.		89-NA-336	A	HARITOS
	VANCE	JCHN		89-NA-317	A	AMOS
	HUANG	GARING		89-NM-511		NELSON
	KENTARNAVAZ	N.		89-NM-516		WAKSMAN
TEXAS TECH UNIVERSITY	EMRE	EROL	J	89-NM-645		CROWLEY
	LAW	VICTOR		89-NM-552		GLASSMAN
	MAJTYNI	STEVEN		89-NA-293		BOYCE
	COMMER	HAROLD	A	89-NA-342	A	BOYCE
TEXAS ENGINEERING EXPERIMENT CENTER	HALSEY	JAMES	H	89-NL-195		CERVERY
	LAWARTINIÈRE	CORAL		89-NL-273		SCHLOSSBER
	MANSURIFUR	MASUD		89-NP-157		KELLEY
	BASHKIN	STANLEY		89-NC-273		DAVIS
	BERNATH	PETER		89-NE-238		WEINSTOCK
	DERENIAK	EUSTACE	L	89-NP-175		SCHLOSSBER
	FALCO	CHARLES	H	89-NM-610		WAKSMAN
	FARIS	WILLIAM	G	89-NA-313	A	MCMICHAEL
	KERSCHEN	EDWARD	J	89-NE-248		SCHLOSSBER
	MACLEOD	H. ANGUS		89-NE-259		GILES
	PEYGHAMBARIAN	N.		89-NC-189	A	SCHLOSSBER
UNIV OF ARIZONA	SARID	DROR		89-NL-221		FREGLY
	SCHAFTER	DANIEL	L	89-NM-573	A	NACHMAN
	SCOTT	ALWIN	C	89-NC-604		NACHMAN
	WEINBERGER	MICHAEL	C	89-NM-615		BAROUCH
	BARLOW	R.	E	89-NC-293		DAVIS
	AFKARIAN	V.	A	89-NP-172		SCHLOSSBER
	ATTWOOD, JR.	DAVID	T	89-NA-287	C	TISHKOFF
	BAYES	KYLE	O	89-NL-238		TANGNEY
	BAYLIS	GCROON	C	89-NA-209		AMOS
	BAYO	ECUARCO		83-NL-203		BERRY
UNIV OF CALIFORNIA	BEATTY	JACKSON				

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PRINCIPAL	STATUS	PM NAME
	BENDIKSEN	OCDVAR		89-NA-304	A	AMOS
	BULLOCK	THEODORE		89-N-L-241	A	FREGLY
	CAFLISCH	RUSSEL	S	89-N-M-579	A	NACHMAN
	CHANG	T.		89-N-M-582	C	GLASSMAN
	GRUNBAUM	F ALBERTO		89-N-M-591	A	NACHMAN
	HASTA	T.C.		89-N-E-307	C	GILES
	JAHMALAMACAKA	S.	R	89-N-M-559	A	BAROUCH
	KCWEI	STEPHEN	T	89-N-E-286	C	GILES
	LILIENTHAL WEBER	ZUZANNA		89-N-E-298	WITT	
	LECKIE	F	A	89-N-A-247		HARITOS
	LIN	ANTHONY	T	89-N-P-202	A	BARKER
	LUFMANN, JR.	NEVILLE	C	89-N-P-209	A	SCHLOSSBER
	MAGADUDIN	ALEXEI	A	89-N-P-191	D	WAKSMAN
	OLSSON	RONALD	A	89-N-M-538	A	CROWLEY
	PGLAK	ELIJAH		89-N-M-543	A	BERRY
	ROBERTS	SETH		89-N-L-276		
	SIGVARDOT	KAREN	A	89-N-L-200		
	SIRIGNANO	WILLIAM	A	89-N-A-290		
	WILHELM'S	JANE		89-N-M-602	C	NELSON
	BERMAN	FRANCINE	L	89-N-L-213	C	FREGLY
	ELMAN	JEFFREY		89-N-E-272	C	GILES
	ESENER	SADIK		89-N-E-300	A	
	GALTIER	S.		89-N-C-244	A	STOBIE
	KUTAS	CATHERINE		39-NL-261	A	FREGLY
	LAWRENCE	MARTA		89-N-M-550	C	CROWLEY
	MARK	DALE	J	89-N-C-229	A	ULRICH
	ALBIN	STANLEY	H	39-N-C-232	C	SAKELL
	RUSSELL	JAMES	E	89-N-P-162	A	KELLEY
	SHANSON		L	89-N-L-249	A	FREGLY
	ABLOWITZ	MARK	J	89-N-M-491	A	NACHMAN
	BALAS	MARK	J	89-N-A-332	A	AMOS
	BARUT	A*	O	99-N-P-180	C	SCHLOSSBER
	BELL	ALAN		89-N-L-237	D	TANGNEY
	BLUMEN	WILLIAM		89-N-C-296	D	STOBIE
	BROADSHAW	GARY		89-N-L-211	D	FREGLY
	BRANCH	MELVYN	C	33-N-A-213	D	BIRKAN
	KASSOV	DAVID		89-N-A-298		
	KIRKPATRICK	SCOTT		89-N-E-287		
	KO	HCH-YIM		89-N-A-241		
	MCERYAN	OLIVER	A	89-N-M-534	A	NELSON
	SCFNAEBL	RCBERT	B	89-N-M-496	A	GLASSMAN
	BRADLEY	MICHAEL	S	83-N-C-230	A	ULRICH
	MACYCF	W.	R	89-N-M-483	A	BAROUCH
	TRVEY	MICHAEL	T	83-N-L-257	A	FREGLY
	EEFLING	CHARLES	E	83-N-M-503		BAROUCH
UNIV OF CALIFORNIA, SAN DIEGO						
UNIV OF CINCINNATI						
UNIV OF COLORADO						
UNIV OF CONNECTICUT						
UNIV OF DAYTON						

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF DELAWARE	BRILL	THOMAS	B	89-NC-266	DAVIS	
UNIV OF DENVER	GRANT	STEVEN	J	89-NL-216	BERRY	
UNIV OF DURHAM	APPE	ROBERT	C	89-NC-237	BURGGRAF	
UNIV OF FLORIDA	CHAMBERS	R.	D	89-NC-223	MATUSZKO	A
	BEKICK	THOMAS	A	89-NL-230	CERVENY	
	BURNS	MICHAEL		89-NC-242	BURGGRAF	
	CARROLL	BRUCE	F	89-NA-224	HELIN	
	CHAUDRY	RASUL	G	89-NL-234	CERVENY	
	HAJELA	PRABHAT		89-NA-307	AMOS	
	HATFIELD	KIRK		89-NL-229	CERVENY	
	HSU	CHEN-CHI		89-NA-234	SAKELL	
	KALMAN	R. E.		89-NA-487	CROWLEY	
	LEONARD	CHRISTIANA		89-NL-212	FREGLY	
	MALVERN	LAWRENCE	E	89-NA-339	WU	
	MIKOLAITIS	DAVIO	H	89-NA-297	TISHKOFF	
	PRINCipe	JOSE	C	89-NL-217	BERRY	
	ROWE	JACK	E	89-NE-268	LITTON	A
	STEEFET	J	J	89-NL-235	CERVENY	
	THOMSON	EWEN	H	89-NC-247	STOBIE	
	VENURI	BABA	C	89-NM-514	WAKSMAN	
	YU-QUCC	PROFESSOR LOC		89-NA-255	AMOS	
	WHITE	KEITH	D	89-NL-262	TANGNEY	
	DUNCAN	MICHAEL	A	89-NC-274	DAVIS	
	KING	ROBERT	B	89-NC-278	MATUSZKO	
	LADEONTE	BARRY	J	89-NP-169	RADOSKI	
	ANCERSEN	GEORGE	J	89-NL-246	TANGNEY	
	BASAR	T.		89-NM-553	CROWLEY	
	CHODNOVSKY	A.		89-NA-245	HARITOS	
	CYBENKO	GEORGE		89-NM-618	NACHMAN	A
	EURELL	THOMAS	E	89-NL-274	CERVENY	
	GILLETT	MARTHA	U	89-NL-218	BERRY	
	KRIVEN	WALTRAUD	H	89-NE-254	SCHIOLER	
	KUCK	DAVID	V	89-NM-513	NACHMAN	
	LAURENCE, JR	FREDERICK	J	89-NA-329	WU	
	MIESCKE	KLAUS		39-NM-484	BAROUCH	
	RICHES	CHARLES	X	89-NP-184	SCMLOSSBER	
	HU	CHIEN	H	89-NA-310	HARITOS	A
	YOUNG	J F		89-NA-242	WU	
	FCIAS	CIPRIAN		99-NM-581	NELSON	
	ALLEN	SUSAN	D	89-NE-269	LITTON	
	TZCU	HORN		89-NA-268	AMOS	
	CYEN	H.		89-NM-617	NACHMAN	A
	KRISHNAPRASAD	P.		89-NP-523	CROWLEY	
	PENNER	MERRILYNN	J	89-NL-248	BERRY	
	EMURIAN	HENRY		99-NM-520	WAKSMAN	
	SEIDMAN	THOMAS	H	89-NM-630	CROWLEY	
	BAFTO	ANDREW	I	89-NE-220	GILES	
	CCREN	PAUL	R	89-NM-583	WAKSMAN	A
UNIV OF INDIANA						
UNIV OF IOWA						
UNIV OF KENTUCKY						
UNIV OF MARYLAND						
UNIV OF MARYLAND BALTIMORE COUNTY						
UNIV OF MASSACHUSETTS						

INSTITUTION INDEX (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF MICHIGAN	FREYMAN	RICHARD		89-NM-619	A	WAKSMAN
	LAI	KEI MAY		89-NL-239		TANGNEY
	NASH	WILLIAM	J	89-NE-234		WITT
	BERERETON	GILES		89-NA-280		AMOS
	CHEN	I-WEI		89-NA-233		SAKELL
	GIBALA	RONALC		89-NE-252		SCHIGLER
	GILGERBACH	RONALC		89-NE-245	A	ROSENSTEIN
	LA FORTUNE	STEPHANE		89-NP-181		BARKER
	MALUMUDER	PINAKI		89-NM-590		CROWLEY
	MORROW	THOMAS	J	89-NE-223		GILES
	MICLROU	GERARO	A	89-NL-204		BERRY
	STEEL	DUNCAN	G	89-NE-258		WITT
	TENEKETZIS	D.		89-NP-195		SCHLOSSBER
	WAAS	HERBERT	G	89-NM-485		CROWLEY
	WINFUL	IRVING	H	89-NM-636		CROWLEY
	BIEDERMAN	A.		89-NA-309		HARITOS
	TEWFIK	HANS	H	89-NP-196		SCHLOSSBER
	WEINBERGER	CARL	J	89-NL-209		TANGNEY
	BASSI	MEERA		89-NM-561		BAROUCH
	CHANDRASEKHAR	RAGHU	C	89-NM-566		NACHMAN
	KRISHNAPURAH	SHEN	E	89-NL-208	D	TANGNEY
	LEE	GARTH		89-NE-225		WITT
	RESCH	ROD	H	89-NM-641	A	WAKSMAN
	DCUGLASS	DENNIS	R	89-NL-237		SAKELL
	ALEXANDER	JITENDRA	S	89-NM-510		BERRY
	DECGRUN	RODMEE		89-NL-201		NACHMAN
	DILLON	HAMID		89-NM-510		SCHLOSSBER
	YAKILZADIAN	WILLIAM		89-NC-165		NELSON
	BERNDT	HYUNG		89-NM-480		
	SHIN	JAMES		89-NE-257		
	TELFORD	EDWARD	O	89-NM-549		
	CHUPP	EDOL		89-NL-275		
	SCAHMILDULLU	HOWARD		89-NC-307		
	SCIREYER	WILLIAM		89-NC-227	C	
	FISHMAN	K		89-NP-208		
	GOLDEN	DAVID	H	89-NP-177	A	
	GRCSS	GUENTER		89-NA-244		
	ROBERTS	JAMES		89-NM-593		
	GOLLAKALLI	S.		89-NA-288		
	NICHOLAS	KENNETH		89-NC-239		
	TUAN	TAI-CHING		89-NM-519		
	ENGELKING	PAUL		89-NC-292		
	HARDWICK	JOHN		89-NA-284		
	BLAEMAN	PETER		89-NM-528		
	DAILEY, III	WILLIAM		89-NC-294		
	FARHAT	NEBIL		89-NE-241		

INSTITUTION INDEX (1 APR 69 - 30 JUN 89)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - "A" = ACCEPTED, "D" = DECLINED.

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	FM NAME
UNIV OF WISCONSIN	GAINES	DONALD	F	89-NC-269	CAVIS	
	LIN	CHUN	C	89-NP-187	KELLEY	
	PLESHA	MICHAEL	E	89-NA-321	WU	
	SELMROD	MARSHALL		89-NM-495	NACHMAN	
UNIV OF WYOMING	PETERSEN	NANCY	S	89-NL-268	CERVENY	
UNIVERSAL ENERGY SYSTEMS INC	DAFRAH	ROO		89-XD-024	CAVENDER	
UNIVERSITY OF ALABAMA	DARRAH	ROONEY	C	89-XO-015	CAVENDER	
UTAH STATE UNIVERSITY	CHIPMAN	RUSSELL	A	89-NE-260	GILES	
VANDERBILT UNIVERSITY	BUMPUS	JOHN	A	89-NL-232	CERVENY	
	SCHUNK	ROBERT	H	89-NC-236	STOBIE	
	BRIGGS	ROBERT	C	89-NL-270	CERVENY	
	LUKEHART	CHARLES	H	89-NC-303	ULRICH	
	TOLK	NORMAN	H	89-NC-238	BURGGRAF	
VIRGINIA POLYTECHNIC INST & STATE UNIV	GUANZBURGER	MAX	D	89-NM-632	NELSON	
	MCGRATH	JAMES	E	89-NC-289	ULRICH	
	MOCK	D.	T	89-NA-331	HELIN	
	MYERS	R.	H	89-NC-643	BAROUCH	
	REIFFSNIDER	K	L	89-NA-643	HARITOS	
	DEADWYLER	SAM	A	89-NL-199	BERRY	
	BYFNES	CHRISTOPHER	I	89-NM-525	CROWLEY	
	IBRAHIM	ROUF		89-NA-283	AMOS	
	SMITH	DENNIS	P	89-NL-271	CERVENY	
	WALSH	ROBERT	D	89-NA-286	TISHKOFF	
	BRANDT	ACHI		89-NM-596	NELSON	
	WOJCIK	ZBIGMIEW		89-NM-533	WAKSMAN	
	NASRABADI	NASSEB	H	89-NM-631	WAKSMAN	
	SAGE	JOSEPH	-	89-NA-314	WU	
	EPPERS	WILLIAM	C	89-NE-261	LITTON	
	KCUBEK	RICHARD	J	89-HL-245	FREGLY	
	MCAULAY	ALASTAIR		89-NE-233	GILES	
	COIFMAN	R.	R	89-NM-558	BAROUCH	
	NARENDRA	K. S.		89-NE-295	GILES	
	NEFORAI	ARYE		89-NM-560	BAROUCH	
	PERLIS	ALAN		89-NE-270	GILES	
	PEFFERLE	LISA	D	89-NA-282	TISHKOFF	
	SOFIA	SABATINO		89-NP-171	RADOSKI	
	SCREENIVASAN	K	R	89-NA-230	MCMICHAEL	
VALE UNIVERSITY SCHOOL OF MEDICINE	GINDI	GENE	R	89-NE-302	GILES	

PART II

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(90 URI) INVERSE DYNAMIC APPROACH AND DISTRIBUTED PIEZOELECTRIC ACTUATORS FOR THE OPTIMAL CONTROL OF LARGE SPACE STRUCTURES UNIV OF CALIFORNIA BAYO	EDUARDO	N 12 06/06/89 \$74,511	AMOS 89-NA-209	
HIGH-FIDELITY DYNAMIC-PERFORMANCE SIMULATION OF SPACE STRUCTURES CONTROL RESEARCH CORP	LIN JIGUAN	N 36 06/04/89 \$695,956	AMOS 89-NA-212	
MODELLING OF THERMOMECHANICAL RESPONSE OF INELASTIC STRUCTURAL MATERIALS TO HIGH ENERGY THERMAL INPUTS TEXAS A AND M RESEARCH FOUNDATION	DAVID ALLEN	R 36 06/04/89 \$429,221	AMOS 89-NA-214	
CONTACT DEFORMATION AND SPALLING EFFECTS AT LOW AND MEDIUM VELOCITY IMPACT ON COMPOSITE STRUCTURES LAWRENCE TECHNOLOGICAL INSTITUTE	MABEL GRACE	N 24 25/04/89 \$117,370	AMOS 89-NA-248	
NONLINEAR SLOSHING AND THE COUPLED DYNAMICS OF LIQUID PROPELLANTS AND SPACECRAFT FLORIDA ATLANTIC UNIVERSITY	SU	N 24 25/04/89 \$79,928	A AMOS 89-NA-250	\$39,964 01/08/89 \$79,928
(90 URI) DYNAMICS AND STABILITY OF MULTI-FLEXIBLE/RIGID-BODY SYSTEMS USING GEOMETRICALLY EXACT THEORIES UNIV OF TORONTO	VU QUOC	N 36 26/04/89 \$192,706	AMOS 89-NA-255	
2 (90 URI) INTEGRATED DISTRIBUTED SENSING AND ACTIVE VIBRATION SUPPRESSION OF SHELLS USING PIEZOELECTRIC ELEMENTS UNIV OF KENTUCKY	TIZOU HORN	N 36 03/05/89 \$885,543	AMOS 89-NA-268	
(90 URI) CONTROL AND SIMULATION OF WAVE PROPAGATION IN LARGE SPACE STRUCTURES BOSTON UNIVERSITY	NAGEEM RAYMOND	N 36 03/05/89 \$216,981	AMOS 89-NA-269	
(90 URI) ACTIVE DAMPING AUGMENTATION OF LARGE SPACE STRUCTURES GEORGIA INSTITUTE OF TECH	FERRI ALDO	N 36 03/05/89 \$336,034	AMOS 89-NA-270	

TITLE	TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS	RECEIVED AMOUNT	STATUS	PROGRAM MANAGER	PROPOSAL #	INITIATE DATE	START DATE	TOT AMT
(90 URI) NONLINEAR DYNAMICS OF DEPLOYABLE AND MANEUVERABLE SPACE STRUCTURES	CORNELL UNIVERSITY	MOON	FRANCIS	N 36	03/05/89 \$2,025,868	AMOS		89-NA-271			
(90 URI) SHEAR PANEL BUCKLING STRENGTH OF COMPOSITES: EFFECTS OF CUT-OUTS AND LOCAL DELAMINATION	TEMPLE UNIVERSITY SCHOOL OF MEDICINE	SACEGHI/CUR	K	N 24	03/05/89 \$103,663	AMOS		89-NA-272			
(90 URI) QUALITATIVE AND QUANTITATIVE INVESTIGATION OF THE PERFORMANCE AND EFFICIENCY OF STRUCTURAL CONTROL SYSTEMS	RUTGERS - THE STATE UNIVERSITY (ENGR)	BARUF	HAIM	N 36	06/05/89 \$211,377	AMOS		89-NA-276			
(90 URI) EXPERIMENTS IN STRUCTURAL DYNAMICS AND CONTROL	ATLANTA UNIVERSITY	ROTA	KWABENA	N 36	06/05/89 \$587,408	AMOS		89-NA-277			
(90 URI) PERFORMANCE OF CYLINDRICAL GRAPHITE EPOXY TUBES DUE TO IMPACT LOAD	TEXAS A AND M UNIVERSITY	CCHOA	CZDEN	N 24	06/05/89 \$167,656	AMOS		89-NA-278			
(90 URI) COMPUTATIONAL METHODS FOR HIGH GRADIENT PROBLEMS IN MATERIAL FAIILURE PROCESSES	NORTHWESTERN UNIVERSITY	BELYTSCHKO	TELEG	N 36	06/05/89 \$752,235	AMOS		89-NA-279			
(90 URI) FLUID-STRUCTURES INTERACTION PHENOMENA	UNIV OF MASSACHUSETTS	NASH	WILLIAM	N 36	06/05/89 \$309,276	AMOS		89-NA-280			
(90 URI) MINIMUM TIME MANEUVER OF FLEXIBLE SPACECRAFT CASED ON PULSE RESPONSE MEASUREMENTS	UNIV OF TEXAS	BENNIGHOF	JEFFREY	N 36	06/05/89 \$225,256	AMOS		89-NA-281			
(90 URI) DYNAMIC STABILITY AND RESPONSE OF ANISOTROPIC STRUCTURES UNDER AERODYNAMIC HEATING	WAYNE STATE UNIVERSITY	IBRAHIM	ROUFF	N 36	06/05/89 \$278,730	AMOS		89-NA-283			

REPORT DATE 07/17/89

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF AEROSPACE SCIENCES

PAGE 3

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	STATUS	INITIATE START DATE TOT AMT
(SDI-SBIR) ADAPTIVE CONTROL OF FLEXIBLE LARGE SPACE STRUCTURES FOR ACCURATE POINTING AND TRACKING SCIENTIFIC SYSTEMS INC.	MEHRA	N 06 16/05/89 \$55,956	AMOS A	\$59,956 01/10/89	
COMPUTATIONAL STUDIES IN TRANSONIC AEROELASTICITY		N 36 16/05/89 \$395,327	AMOS	\$59,956 89-NA-300	
UNIV OF CALIFORNIA	BENDIKSEN	CODVAR		89-NA-304	
HEURISTIC METHODS FOR TOPOLOGICAL SYNTHESIS OF STRUCTURAL SYSTEMS UNIV OF FLORIDA	HAJELA	PRAKHAT	N 36 17/05/89 \$308,181	AMOS	
WORKSHOP ON MICROGRAVITY SIMULATION IN GROUND VALIDATION TESTING OF LARGE SPACE STRUCTURES ENGINEERING MECHANIC ASSC INC	MASSELMAN	TIMOTHY	N 12 23/05/89 \$45,179	AMOS A	\$10,000 01/09/89
(AFRAPT) RESEARCH FOR ADVANCED AIRCRAFT ENGINE STRUCTURES AT TEXAS A&M UNIVERSITY TEXAS A AND M UNIVERSITY	VANCE	JOHN	R 12 25/05/89 \$150,651	AMOS A	\$150,651 01/09/89
PROVIDE COMPUTING SUPPORT ON AFLW CRAY SUPER COMPUTER TO AFOSR IOWA STATE UNIVERSITY DEPARTMENT OF PATH	BAUMGARTEN	J. BAUMGARTEN	N 02 02/06/89 \$10,000	AMOS A	\$150,651 01/07/89
(90-LRI) EXPERIMENTAL STUDIES IN CONTROL-STRUCTURES INTERACTION OHIO STATE UNIVERSITY	CZGUNER	UNIT	N 36 06/06/89 \$734,870	AMOS	\$10,000 89-NA-324
NONLINEAR DYNAMICS AND CONTROL OF DEPLOYABLE AND MANEUVERABLE STRUCTURES CORNELL UNIVERSITY	MOON	FRANCIS	N 24 06/06/89 \$9,000	AMOS	89-NA-327
EXPERIMENTAL AND THEORETICAL STUDIES OF THE MECHANICS OF LOAD TRANSFER ACROSS INTERFACES IN LAYERED MATERIALS UNDER IMPACT OXFORD UNIVERSITY	HARDING	JOHN	N 36 06/06/89 \$265,480	AMOS	89-NA-328

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS	RECEIVED AMOUNT	PROGRAM MANAGER	STATUS	INITIATE START DATE	TOT AMT
LOW-ORDER CONTROL OF LINEAR AND NON-LINEAR VIBRATIONS IN LARGE SPACE STRUCTURES	UNIV OF COLORADO	BALAS	N 36	07/06/89 \$316,744	AMOS	89-NA-332		
DIRECT USE OF PULSE RESPONSE MEASUREMENTS FOR MINIMUM TIME MANEUVER OF FLEXIBLE SPACECRAFT	UNIV OF TEXAS	BENNINGHOFF	N 36	07/06/89 \$225,256	AMOS	89-NA-333		
SPECTRAL RESPONSE OF NONLINEAR SYSTEMS WITH RANDOM EXCITATION	STATE UNIVERSITY OF NEW YORK	MILES	H 36	07/06/89 \$219,198	AMOS	89-NA-334		
STUDIES ON CONTROL, NONLINEAR DYNAMICS AND MODELING PROBLEMS IN LARGE SPACE-STRUCTURES	GEORGIA INSTITUTE OF TECH	ATLURI	N 36	23/06/89 \$295,960	AMOS	89-NA-340		
FLAME CHEMISTRY OF SULFID PROPELLANT COMBUSTION	UNIV OF COLORADO	BRANCH	R 24	06/04/89 \$194,414	BIRKAN	89-NA-213		
INVESTIGATION OF ENERGY EXCHANGE MECHANISMS BETWEEN THE MEAN AND ACUSTIC FIELDS IN SOLID ROCKET COMBUSTION CHAMBERS	SCIENCE APPLICATIONS INC	BAUM	N 17	27/04/89 \$177,530	BIRKAN	89-NA-257	\$30,973 01/08/89 \$177,530	
(90 UR) ELECTROSTATIC LIQUID-FILM RADIATOR	NORTHWESTERN UNIVERSITY	BANKOFF	N 36	03/05/89 \$319,930	BIRKAN	89-NA-267		
SUPPORT FOR THE COMBUSTION INSTITUTE	CALCOTE	H.	R 24	03/05/89 \$20,000	BIRKAN	89-NA-275	\$10,000 15/09/89 \$10,000	
COMBUSTION OF HYDROGEN AND HYDROCARBONS IN FLUORINE	EMORY UNIVERSITY	KAUFMAN	R 24	16/05/89 \$111,193	BIRKAN	89-NA-303		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(90 URI) EVALUATION OF SOIL LIQUEFACTION INDUCED BY FAST DYNAMIC LOADING USING ENERGY PRINCIPLES CASE WESTERN RESERVE UNIVERSITY	J LUDWIG FIGUEROA	N 24 11/04/89 \$227,111	BOYCE 19-NA-217	
(90 LRI) MICROMECHANICAL BEHAVIOR OF ASPHALT CONCRETE MIXTURES UNDER FATIGUE LOADING CASE WESTERN RESERVE UNIVERSITY	J LUDWIG FIGUEROA	N 24 11/04/89 \$230,119	BOYCE 89-NA-218	
(90 URI) VIDEO IMAGE PROCESSING FOR EVALUATING PAVEMENT SURFACE DISTRESS IN MILITARY AIRFIELD PAVEMENTS CASE WESTERN RESERVE UNIVERSITY	J LUDWIG FIGUEROA	N 30 11/04/89 \$366,283	BOYCE 89-NA-219	
(90 LRI) FLEET: AN EQUIPMENT MANAGEMENT SYSTEM CASE WESTERN RESERVE UNIVERSITY	TAVAKOLI AMIR	N 12 25/04/89 \$61,861	BOYCE 89-NA-249	
INVESTIGATION OF THE INTERFACE PHENOMENA due TO INTERACTION OF UNDERGROUND NUCLEAR SHOCKWAVES WITH MATERIAL BOUNDARIES UTD INC.	STEVEN MAJENYI	N 30 09/05/89 \$306,172	BOYCE 89-NA-293	
ENGINEERING RESEARCH INITIATION GRANTS UNITED ENGINEERING TRUSTEES INC	COWRER	N 26 27/06/89 \$50C,001	A BOYCE 89-NA-342	\$1 01/07/89 \$500,001
(90 URI) EFFECTS OF MICROSTRUCTURE ON RELIABILITY AND LIFETIME EXPECTANCY OF ENGINEERING MATERIALS UNIV OF ILLINOIS	CHUDNOVSKY A	N 36 24/04/89 \$1,389,509	HARITOS 89-NA-246	
(90 URI) "HIGH PERFORMANCE LAMINATED COMPOSITES."	LECKIE F	N 36 24/04/89 \$790,909	HARITOS 89-NA-247	
(90 URI) PROPOSAL FOR A CENTER ON THE MICRO-MECHANICS OF MULTI-PHASE SOLIDS CORNELL UNIVERSITY	JENKINS JAMES	N 36 25/04/89 \$3,375,802	HARITOS 89-NA-252	

REPORT DATE 07/17/89

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF AEROSPACE SCIENCES

PAGE 6

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(90 URI) HIGH TEMPERATURE HETEROGENOUS MATERIAL NORTHWESTERN UNIVERSITY	KEER L		N 36 26/04/89 \$1,939,254	MARITOS 89-NA-253	
(90 URI) "GLOBALLY LINEAR/LOCALLY NONLINEAR DAMAGE AND DELAMINATION ANALYSIS OF COMPOSITE SHELLS USING A PARALLEL RE-BALYSIS PINSKY STANFORD UNIVERSITY	PETER		N 24 26/04/89 \$374,427	MARITOS 89-NA-254	
(90 URI) CENTER FOR NONLINEAR RESPONSE IN COMPOSITE MATERIAL SYSTEMS VIRGINIA POLYTECHNIC INST & STATE UNIV	REIFSNIDER K		N 36 02/05/89 \$2,701,173	MARITOS 89-NA-266	
MICROMECHANICS AND FRACTURE MECHANICS IN HIGH-TEMPERATURE CERAMIC-MATRIX COMPOSITES DREXEL UNIVERSITY	WANG ALBERT		N 36 16/05/89 \$437,919	MARITOS 89-NA-305	
FAILURE MECHANISMS IN LAMINATED COMPOSITES CONTAINING CUTOUTS UNIV OF MICHIGAN	WAAS A		N 36 19/05/89 \$59,481	MARITOS 89-NA-309	
ESHELBY FORCES ASSOCIATED WITH AN ADVANCING CRACK SURROUNDED BY VANISHINGLY SMALL INHOMOGENEITY UNIV OF ILLINOIS	WU CHENGYI		N 12 23/05/89 \$30,856	MARITOS 89-NA-310	
DEVELOPMENT OF EXPERIMENTAL METHODS RELATED TO DEFORMATION MEASUREMENTS IN MICRON AND SUBMICRON DOMAINS OF SOLIDS CALIFORNIA INSTITUTE OF TECHNOLOGY	KNAUSS W		N 24 06/06/89 \$275,896	MARITOS 89-NA-325	
DEFORMATION AND FRACTURE OF FIBER-REINFORCED CERAMIC COMPOSITES TEXAS A AND M UNIVERSITY	SCHAFFERY R		N 36 20/06/89 \$375,000	MARITOS 89-NA-336	
(90 URI) BOUNDARY LAYER TRANSITION UNDER THERMACHINERY FLOW CONDITIONS TEXAS A AND M RESEARCH FOUNDATION	SCHOEPETRI T		N 36 03/04/89 \$212,129	HELIN 89-NA-208	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(90 URI) UNSTEADY ANALYSIS AND PREDICTION OF VORTEX-DOMINATED FLOWS AROUND MANEUVERING, DEFORMING WING-BODY CONFIGURATION	C SAMA	N 36 13/06/89 \$253,336	HELIN 89-NA-221	
(90 URI) EFFECTS OF INLET TURBULENCE AND NOZZLE WAKE ON TURBINE ROTOR UNSTEADY AERODYNAMICS AND UNSTEADY HEAT TRANSFER	LAKSFMINARAYANA	N 36 17/06/89 \$342,973	HELIN 89-NA-222	
(90 URI) GAS TURBINE BLADE HEAT TRANSFER STAGNATION REGION HYDRO-DYNAMICS AND HEAT TRANSFER UNDER HIGHLY TURBULENT	YAVUZKURT	N 36 17/06/89 \$295,064	HELIN 89-NA-223	
(90 URI) BIStABLE BEHAVIOR OF SHOCK TRAINS IN DUCTED SUPERSONIC FLOWS	CARRELL	N 36 17/06/89 \$276,648	HELIN 89-NA-224	
(90 URI) CONTROL OF UNSTEADY, SEPARATED FLOWS	PAUL	N 36 17/06/89 \$1,173,640	HELIN 89-NA-225	
(90 URI) PHYSICAL AND COMPUTATIONAL MODELING OF THREE-DIMENSIONAL VISCOUS FLOWS	DRELA	N 24 19/06/89 \$258,270	HELIN 89-NA-243	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	GARY			
AN EXPERIMENTAL STUDY OF NONLINEAR INCICIAL RESPONSES FOR LARGE AMPLITUDE AIRFOIL MOTION	GRAHAM	N 18 28/04/89 \$63,702	A HELIN 89-NA-259	\$63,702
CHIO UNIVERSITY	PHILLIP			
NAVAL POST GRADUATE SCHOOL	LIGRANI			
TERMAL TRANSFRT MECHANISMS IN NEAR-WALL REGIONS OF TURBULENT BOUNDARY LAYERS WITH VORTEX/WALL JET INTERACTIONS		N 36 01/05/89 \$125,800	HELIN 89-NA-264	
NAVAL POST GRADUATE SCHOOL				
(90 URI) CLOSED LOOP AND STRUCTURAL DYNAMIC STABILIZATION OF AEROMECHANICAL SYSTEMS	EPSTEIN	N 36 03/05/89 \$1,169,695	HELIN 89-NA-273	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ALAN			

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(AFRAPT) MASSACHUSETTS INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	GREITZER E	R 15/05/89 \$292,460	A HELIN 89-NA-299	\$292,460 01/09/89 \$292,460
HIGH-SPEED UNSTEADY FLOW DIAGNOSTICS NASA - AMES RESEARCH CENTER	CARR LARRY	N 17/05/89 \$100,000	A HELIN 89-NA-306	\$100,000 15/06/89 \$100,000
ANALYSIS OF COUPLED UNSTEADY BOUNDARY-LAYER FLOWS UTILIZING A SEMI- UTILIZING A SEMI-SIMILAR SINGULAR PARASOLIC APPROACH NORTH CAROLINA STATE UNIVERSITY	JAMES	N 01/06/89 \$277,665	A HELIN 89-NA-319	\$324,225 20/10/89 \$973,722
FLUID PHYSICS: UNSTEADY FLOWS IN TURBOMACHINES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	EDWARD GREITZER	R 07/06/89 \$973,722	A HELIN 89-NA-330	\$324,225 20/10/89 \$973,722
AERODYNAMIC/DYNAMIC/CONTROL INTERACTION VIRGINIA POLYTECHNIC INST & STATE UNIV	MOCK D	N 07/06/89 \$184,985	A HELIN 89-NA-331	\$59,993 15/10/89 \$184,985
(SBIR) EXPLOITATION OF MULTIPLE SOLUTIONS OF THE NAVIER-STOKES EQUATIONS TO ACHIEVE RADICALLY IMPROVED FLIGHT NIELSEN, ENGINEERING AND RESEARCH CO	NIXON	N 10/04/89 \$272,852	A MCMICHAEL 89-NA-216	
(90 URI) PROBLEMS IN NONLINEAR INSTABILITIES AND TRANSITION UNDER A VARIETY OF FLIGHT SPEEDS BROWN UNIVERSITY	C LIL	N 17/04/89 \$893,072	A MCMICHAEL 89-NA-226	
(90 URI) APPLICATION OF DYNAMICAL SYSTEMS THEORY TO IDENTIFY FUNDAMENTAL MECHANISMS OF TURBULENCE FROCLCTON	JOSEPH GLAUSER	N 17/04/89 \$337,375	A MCMICHAEL 89-NA-227	
(90 URI) THE STRUCTURE OF HIGH REYNOLDS NUMBER TURBULENT BOUNDARY LAYER PRINCETON UNIVERSITY	SMITS	N 17/04/89 \$373,556	A MCMICHAEL 89-NA-228	

REPORT DATE 07/17/69

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 9

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(90 URI) THE STRUCTURE OF HIGH REYNOLDS NUMBER TURBULENT BOUNDARY LAYERS, PART A PENNSYLVANIA STATE UNIVERSITY	J BRASSEUR	N 36 17/04/89 \$377,080	MCMICHAEL 89-NA-229	
(90 URI) THE STRUCTURE OF HIGH REYNOLDS NUMBER TURBULENT BOUNDARY LAYER YALE UNIVERSITY	K SREENIVASAN	N 36 17/04/89 \$306,914	MCMICHAEL 89-NA-230	
(90 URI) CENTER FOR CONTROL AND MANAGEMENT OF UNSTEADY AND TURBULENT FLOWS AT THE NATIONAL DIAGNOSTIC FACILITY ILLINOIS INSTITUTE OF TECHNOLOGY	HASSAN NAGIB	N 36 17/04/89 \$1,315,000	MCMICHAEL 89-NA-232	
TRANSITION TO TURBULENCE OF A LAMINAR TWC AND THREE-DIMENSIONAL WALL-JET FLOWS TECHNION RSH & DEVELOPMENT FOUNDATION	JACOB COHEN	N 36 28/04/89 \$76,150	MCMICHAEL 89-NA-260	
STUDIES OF ANISOTROPIC AND COMPRESSIBLE TURBULENCE OHIO STATE UNIVERSITY	HERBERT PANTON	N 36 28/04/89 \$962,197	MCMICHAEL 89-NA-261	
RESEARCH ON THEORY OF TURBULENT WALL-LAYERS UNIV. OF TEXAS	RICHARD FALCC	N 36 01/05/89 \$167,123	MCMICHAEL 89-NA-262	
ESTABLISHMENT OF A DATA BASE FOR THE VALIDATION OF DIRECT NAVIER-STOKES WALL FLOW COMPUTATIONS MICHIGAN STATE UNIVERSITY	ROBERT Tabor	N 24 01/05/89 \$329,095	MCMICHAEL 89-NA-263	
RESEARCH PROBLEMS ON CHAOTIC ADVECTION IN THREE DIMENSIONS AND AT HIGHER REYNOLDS NUMBER COLUMBIA UNIVERSITY	MICHAEL	N 36 01/05/89 \$255,247	MCMICHAEL 89-NA-265	
RECEPTIVITY OF BOUNDARY LAYERS TO CONVECTED GLSTS UNIV OF ARIZONA	EDWARD KERSCHEN	N 36 24/05/89 \$225,165	A MCMICHAEL 89-NA-313	

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM PROPOSAL #	INITIATE START DATE TOT AMT
EFFECTS OF EXTERNAL FORCING ON ENTRAINMENT RATIO AND FLUID COMPOSITION IN TURBULENT SHEAR LAYERS MICHIGAN STATE UNIVERSITY	KOOCHESFAHANI HANDOCHEH	R 12 30/05/89 \$28,000	A MCMICHAEL 89-NA-318	\$28,000 01/07/89 \$28,000
RECEPTIVITY OF BOUNDARY LAYERS TO CONVECTED GLSTS MCDOUGALL DOUGLAS RESEARCH LAB	WLEZIEN RICHARD	N 24 05/06/89 \$127,281	A MCMICHAEL 89-NA-322	\$170,000 15/10/89 \$525,000
INTERACTIVE CONTROL IN TURBULENT SHEAR LAYERS ILLINOIS INSTITUTE OF TECHNOLOGY	MARK CANDACE	N 36 05/05/89 \$525,000	A MCMICHAEL 89-NA-323	\$170,000 15/10/89 \$525,000
A NUMERICAL INVESTIGATION OF ENERGY TRANSFER AND SUBGRID-SCALE EDDY VISCOSITY IN HOMOGENEOUS, ISOTROPIC AND SHEAR TURBULENCE RUTGERS - THE STATE UNIVERSITY (ENGR)	RICHARD PELZ	N 36 20/06/89 \$136,556	A MCMICHAEL 89-NA-337	\$170,000 15/10/89 \$525,000
A NUMERICAL INVESTIGATION OF ENERGY TRANSFER AND SUBGRID-SCALE EDDY VISCOSITY IN HOMOGENEOUS, ISOTROPIC AND SHEAR TURBULENCE UNIV OF SOUTHERN CALIFORNIA	COMARAZKI	N 36 20/06/89 \$152,993	A MCMICHAEL 89-NA-338	\$170,000 15/10/89 \$525,000
HEAT TRANSFER PREDICTIONS OF HYPERSONIC TRANSITIONAL FLOWS OVER CONES APPLIED & THEORETICAL MECHANICS INC	CHAMFNEY	N 12 07/C4/89 \$68,099	A SAKELL 89-NA-215	\$68,099 01/10/89 \$68,099
(90 URI) FUNDAMENTAL STUDIES OF UNSTEADY FORCED MIXING BY STREAMWISE VORTICES IN WALL BOUNDED TURBULENT FLOW UNIV OF MICHIGAN	BRERETON GILES	N 36 18/04/89 \$185,590	A SAKELL 89-NA-233	\$68,099 01/10/89 \$68,099
(90 URI) DEVELOPMENT OF SOLUTION-ADAPTIVE COMPUTATIONAL METHODS FOR 3-D FLIGHT VEHICLE AERODYNAMICS SIMULATION UNIV OF FLORIDA	HSU CHEN-CHI	N 36 18/04/89 \$450,000	A SAKELL 89-NA-234	\$68,099 01/10/89 \$68,099
(90 URI) SUPERSONIC TURBULENCE BOSTON UNIVERSITY	SANDRI GUIDO	N 24 18/04/89 \$355,890	A SAKELL 89-NA-235	\$68,099 01/10/89 \$68,099

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(90 URI) FLOW CONTROL STANFORD UNIVERSITY	REYNOLDS	N 36 18/04/89 \$750,000	SAKELL 89-NA-236	
(90 LRI) UNSTEADY AND SEPARATED FLOWS UNIV OF MISSOURI	LEE	N 36 18/04/89 \$230,328	SAKELL 89-NA-237	
(90 URI) ESTABLISHING THE BASIS FOR VALIDATED PREDICTIONS OF HIGHLY NONEQUILIBRIUM FLOWS UNIV OF SOUTHERN CALIFORNIA	SHEN	N 36 18/04/89 \$2,167,312	SAKELL 89-NA-238	
(90 URI) FUNDAMENTAL STUDIES IN THE API HYPERSONIC SHOCK TUNNEL OF LEADING EDGE BLUNTNESS & STAGNATION LINE HEAT RENNSELAER POLYTECHNIC INSTITUTE	ERMIN	N 24 18/04/89 \$359,759	SAKELL 89-NA-239	
NUMERICAL FLOW SIMULATIONS FOR COMPLETE VEHICLE CONFIGURATIONS MISSISSIPPI STATE UNIVERSITY	DANIEL	N 36 03/05/89 \$284,558	SAKELL 89-NA-274	
CV/RANS PROCEDURES FOR FLOW PROBLEMS WITH STRONG PRESSURE INTERACTION UNIV OF CINCINNATI	SONTI	N 24 12/05/89 \$199,820	SAKELL 89-NA-294	
THEORETICAL INVESTIGATION OF THREE-DIMENSIONAL SHOCK WAVE - TURBULENT BOUNDARY LAYER INTERACTIONS RUTGERS - THE STATE UNIVERSITY (ENGRI)	RUBIN KNIGHT	R 36 18/05/89 \$265,018	SAKELL 89-NA-308	\$128,811 30/09/89 \$265,018
DEVELOPMENT AND VALIDATION OF RNG METHODOLOGY FOR COMPRESSIBLE TURBULENCE PRINCETON UNIVERSITY	KARNIADAKIS	N 36 13/06/89 \$540,070	SAKELL 89-NA-335	
THEORIES OF TURBULENT COMBUSTION IN HIGH SPEED FLOWS CAMBRIDGE UNIVERSITY (TRUMPINGTON ST.)	GEORGE RAY	N 36 06/04/89 \$120,000	A TISHKOFF 89-NA-211	\$27,909 01/09/89 \$84,314

TITLE INSTITUTION	TITLE (CONT.) INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SBIR PHASE II) DEMONSTRATION OF THE CALICUE CETONATION WAVE FOR HYPERSONIC PROPULSION ASTRON RESEARCH & ENGINEERING	NAKAMURA TAKASHI	R 24 25/04/89 \$495,994	TISHKOFF 89-NA-251	
(90 URI) ADVANCED OPTICAL INSTRUMENTATION FOR SUPERSONICS HYDROGEN HYDROGEN-AIR COMBUSTION FLOWFIELDS UNIV OF VIRGINIA	MCDANIEL JAMES	N 36 26/04/89 \$1,499,794	TISHKOFF 89-NA-256	
(90 URI) VACUUM ULTRAVIOLET PHOTOIONIZATION MASS SPECTROSCOPY FOR IMPROVED DETECTION OF PYROLYSIS AND COMBUSTION PRODUCTS YALE UNIVERSITY	LISA	N 36 06/05/89 \$268,790	TISHKOFF 89-NA-282	
(90 URI) ABSOLUTE BAND INTENSITIES FOR MOLECULES IMPORTANT IN COMBUSTION UNIV OF OREGON	HARDWICK JOHN	N 36 06/05/89 \$307,356	TISHKOFF 89-NA-284	
(90 URI) DEVELOPMENT OF A NOVEL TECHNIQUE TO STUDY THE OPTICAL CHARACTERISTICS OF COMBUSTION GENERATED PARTICULATES LOUISIANA STATE UNIVERSITY	CHARALAMPOPOULAS TRIFON	N 36 06/05/89 \$422,430	TISHKOFF 89-NA-285	
(90 URI) A THEORETICAL STUDY OF THE REACTIVITY, DYNAMICS AND KINETICS OF HIGH ENERGY MATERIALS WAYNE STATE UNIVERSITY	WALSMYER	N 36 06/05/89 \$353,220	TISHKOFF 89-NA-286	
(90 URI) SPURGES OF CHEMI-IONS IN HYDROCARBON FLAMES AND THEIR EARLY REACTIONS UNIV OF CALIFORNIA	BAYES KYLE	N 36 06/05/89 \$342,111	TISHKOFF 89-NA-287	
(90 URI) IMPROVEMENT OF COMBUSTION CHARACTERISTICS OF A BURNING SPRAY BY INTERSECTING ELLIPTIC JETS UNIV OF OKLAHOMA	GOLLAHALLI S	N 24 06/05/89 \$167,921	TISHKOFF 89-NA-288	
(90 URI) SHOCK ENHANCEMENT AND CONTROL OF HYPERSONIC COMBUSTION CALIFORNIA INSTITUTE OF TECHNOLOGY	MARBLE FRANK	N 36 06/05/89 \$1,616,185	TISHKOFF 89-NA-299	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(90 URI) LIQUID-PROPELLANT ROCKET MOTOR COMBUSTION INSTABILITY UNIV OF CALIFORNIA	SIRIGNAC WILLIAM	N 36 06/05/89 \$2,989,976	TISHKOFF 89-NA-290	
(90 URI) HIGH-TEMPERATURE AERODYNAMIC AND COMBUSTION MEASUREMENTS BY OXYGEN A-STATE PUMPING PRINCETON UNIVERSITY	MILES RICHARD	N 36 09/05/89 \$473,840	TISHKOFF 89-NA-291	
(90 URI) RESEARCH ON SUPERSONIC TURBULENT REACTING FLOWS STANFORD UNIVERSITY	BOWMAN CRAIG	N 36 09/05/89 \$2,807,570	TISHKOFF 89-NA-292	
(90 URI) REMPI/MS DIAGNOSTICS AND KINETIC SPECTROSCOPY OF REACTIVE SPECIES INVOLVED IN NITRAMINE DECOMPOSITION REACTIONS EMORY UNIVERSITY	LIN H	N 36 12/05/89 \$482,205	TISHKOFF 89-NA-295	
(90 URI) DROPLET PROCESSES IN LIQUID PROPELLANT ROCKET COMBUSTION INSTABILITY PRINCETON UNIVERSITY	LAW K	N 36 13/05/89 \$625,000	TISHKOFF 89-NA-296	
(90 URI) THE EFFECT OF FLUID TRANSIENTS ON FLAME EXTINCTION UNIV OF TORONTO	MIKOLAITIS KASSOV	N 36 13/05/89 \$244,904	TISHKOFF 89-NA-297	
(90 URI) FUNDAMENTAL STUDIES OF CHEMICAL ACOUSTIC AND ELECTRICAL INTERACTIONS IN ROCKET COMBUSTION UNIV OF COLORADO	DAVID	N 36 13/05/89 \$1,515,895	TISHKOFF 89-NA-298	
FUNDING FOR SIX AFRRAFT STUDENT TRAINEES PRINCETON UNIVERSITY	GLASSMAN IRVIN	R 12 16/05/89 \$179,340	A TISHKOFF 89-NA-301	\$179,340 01/09/89 \$179,340
DETECTING MICROWAVE EMISSIONS FROM TERRESTRIAL SOURCES: A FEASIBILITY STUDY MARQUETTE UNIVERSITY	EHLERI THOMAS	R 24 16/05/89 \$71,073	A TISHKOFF 89-NA-302	\$38,909 01/10/89 \$71,073

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MJNTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
AFRAPI TRAINERSHIPS PENNSYLVANIA STATE UNIVERSITY	SANTAVICCA DOMINIC	R 12 23/05/89 \$135,960	A TISHKOFF 89-NA-312	\$135,960 15/08/89
AIR FORCE RESEARCH IN AERO PROPULSION TECHNOLOGY PURDUE UNIVERSITY	FLEETER SANFORD	R 12 24/05/89 \$149,839	A TISHKOFF 89-NA-316	\$149,839 15/08/89
CHARACTERIZATION OF ACOUSTIC EMISSION SOURCE TO IDENTIFY FRACTURE IN CONCRETE NORTHWESTERN UNIVERSITY	SHAH S	N 36 11/04/89 \$218,653	WU	WU 89-NA-220
(90 URI) MULTIAXIAL TESTING AND CONSTITUTIVE MODELING OF MEDIUM AND HIGH STRENGTH STEEL FIBER REINFORCED CONCRETE CLARKSON UNIVERSITY	STEVENS DAVID	N 36 19/04/89 \$405,826	WU	WU 89-NA-241
(90 URI) THE INFLUENCE OF PRINCIPAL STRESS ROTATIONS ON SOIL- STRUCTURE RESPONSE UNIV OF COLORADO	KO HON-YIM	N 36 19/04/89 \$648,602	WU	WU 89-NA-242
(90 URI) ORGANOCERAMIC COMPOSITES UNIV OF ILLINOIS	YOUNG	N 36 19/04/89 \$1,098,543	WU	WU 89-NA-243
(90 URI) INTERFACIAL MICROMECHANICAL BEHAVIOR UNIV OF NEW MEXICO	SCHREYER HOWARD	N 36 20/04/89 \$2,155,344	WU	WU 89-NA-244
THEORETICAL INVESTIGATION OF PLAIN, FIBER REINFORCED, AND SLURRY REINFORCED FIBER CONCRETES NORTH DAKOTA STATE UNIVERSITY	YAZDANI FRANK	N 24 28/04/89 \$109,000	WU	WU 89-NA-258
INFLUENCE OF ASPERITIC CONTACT AREA ON THE SHEAR BEHAVIOR OF JOINTED ROCK	SAGE JOSEPH	N 24 24/05/89 \$238,166	WU	WU 89-NA-314
WORCESTER POLYTECHNIC INSTITUTE				

REPORT DATE 07/17/89

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 15

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FRACTURE BEHAVIOR OF MORTAR-AGGREGATE INTERFACES IN HIGH STRENGTH CONCRETE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	BUYUKOZTURK CRAL	N 36 24/05/89 \$362,180	WU	89-NA-315
AN INVESTIGATION OF THE MECHANICS OF JOINTED MEDIA UNIV OF WISCONSIN	PLESHA MICHAEL	N 36 05/C6/89 \$444,100	WU	89-NA-321
LASER SHOCK DAMAGE OF FE SINGLE CRYSTALS UNIV OF ILLINOIS	LAWRENCE, JR FREDERICK	N 36 07/06/89 \$434,414	WU	89-NA-329
RATE AND CONFINEMENT EFFECTS ON CRACKING AND FAILURE IN UNIAXIAL COMPRESSION OF CONCRETE UNIV OF FLORIDA	MALVERN LAWRENCE	N 24 21/06/89 \$238,435	WU	89-NA-339
COUPLED MECHANICAL AND HYDRAULIC BEHAVIOR OF SATURATED ROCK JOINTS UNDER CYCLIC LOADS UNIV OF TENNESSEE	CRUMM ERIC	N 24 27/06/89 \$126,434	WU	89-NA-341

REPORT DATE 07/17/89

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 1

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
URI CHEMICAL PHYSICS OF ENERGETIC REACTIONS OF ATOMIC OXYGEN AT SURFACES STANFORD UNIVERSITY	MADIX	ROBERTS	N 12 13/04/89 \$483,693	BURGGRAF 89-NC-229
PARTICLE-INDUCED SURFACE REACTIONS & EROSION RELEVANT TO SPACE ENVIRONMENTS (URI) UNIV OF WASHINGTON	WATTS	ROBERT	N 12 14/04/89 \$102,622	BURGGRAF 89-NC-231
ATOMIC BEAM STUDIES RELATIVE TO THE SPACE ENVIRONMENT (CURI) UNIV OF DENVER	AMME	ROBERT	N 12 14/04/89 \$279,860	BURGGRAF 89-NC-237
SURFACE REACTIONS IN THE SPACE ENVIRONMENT (CURI) VANDERBILT UNIVERSITY	TOLK	NORMAN	N 12 14/04/89 \$466,070	BURGGRAF 89-NC-238
CENTER FOR SURFACE RADIATION DAMAGE STUDIES (CURI) NORTHWESTERN UNIVERSITY	MARKS	LAURENCE	N 12 17/04/89 \$524,949	BURGGRAF 89-NC-241
(CURI) SURFACE REACTIONS BETWEEN ENERGETIC PROTONS AND CARBON IN SPACE ENVIRONMENTS UNIV OF FLORIDA	BURNS		N 12 18/04/89 \$46,445	BURGGRAF 89-NC-242
6TH INTERNATIONAL CONFERENCE ON VIBRATIONS AT SURFACES BROOKHAVEN NATIONAL LABORATORY	WILLIAMS	G	N 4 09/05/89 \$7,000	BURGGRAF 89-NC-258
HYPERTHERMAL ATOMIC OXYGEN GENERATOR NASA - LANGLEY RESEARCH CENTER	CUTLAW	R	N 03 16/05/89 \$21,618	A BURGGRAF 89-NC-264
FORMATION AND IDENTIFICATION OF HIGH ENERGY LINEAR AND CYCLIC OXIDATION POLYMERS IIT RESEARCH INSTITUTE	SNELSON	ALAN	N 12 12/05/89 \$92,196	DAVIS 89-NC-261

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
HIGH PRESSURE STUDIES AND SYNTHESIS OF HIGH DENSITY PHASES OF BERYLLIUM HYDRIDE LAWRENCE LIVERMORE LAB (CALIF UNIV)	JAGAN	N 12 18/05/89 \$83,070	DAVIS 89-NC-265	
FUNDAMENTAL STUDIES OF THE INITIATION OF THERMAL EXPLOSIONS UNIV OF DELAWARE	BRILL	N 12 18/05/89 \$80,113	DAVIS 89-NC-266	
SYNTHESIS OF NEW CHEMICAL COMPOUNDS THAT ARE POTENTIAL HIGH ENERGY CENSITY MATERIALS UNIV OF WISCONSIN	GAINES	N 12 23/05/89 \$135,941	DAVIS 89-NC-269	
QUANTUM CHEMICAL STUDIES OF MOLECULAR STATES AND PROPERTIES OF CANDIDATE HIGH ENERGY DENSITY MATERIALS ARMY ARMAMENT R&D CMC/BALLISTICS RSCH LA	ADAMS	N 12 23/05/89 \$150,596	DAVIS 89-NC-270	
LASER AND FOURIER TRANSFORM SPECTROSCOPY OF ACYEL PROPELLANT MOLECULES UNIV OF ARIZONA	BERNATH	N 12 26/05/89 \$309,403	DAVIS 89-NC-273	
PHOTOGENERATION AND CHARACTERIZATION OF ENERGETIC MOLECULES IN SUPersonic MOLECULAR BEAMS UNIV OF GEORGIA	CUNCAN	N 12 26/05/89 \$82,173	DAVIS 89-NC-274	
STABILITY OF HIGH ENERGY AMORPHOUS MATERIALS UNIV OF UTAH	WIGHT	N 12 31/05/89 \$72,793	DAVIS 89-NC-280	
PHOTOPHYSICS OF HIGH ENERGY DENSITY MATERIALS NATIONAL BUREAU OF STANDARDS	CASASSA	N 12 31/05/89 \$150,000	DAVIS 89-NC-281	
IONIC SOLID HYDROGEN FUEL: STORAGE OF IONS IN A HYDROGEN MATRIX SRI INTERNATIONAL	BAE	N 12 31/05/89 \$185,147	DAVIS 89-NC-282	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT.
HIGH ENERGY MATERIALS BASED ON STABILIZED ALUMINUM AND BORON ATOMS IIT RESEARCH INSTITUTE	ALAN SNELSON	N 12 31/05/89 \$108,999	DAVIS	89-NC-283
DYNAMICS OF ENERGETIC SPECIES IN CONCENSE PHASES CHEMICAL CYNAMICS CORPORATION	GARRETT BRUCE	N 12 01/06/89 \$116,073	DAVIS	89-NC-284
SYNTHESIS OF HIGHLY ENERGETIC COMPOUNDS BY PHOTODECOMPOSITION OF STRAINED MIXED COMPOUNDS MARTIN MARIETTA CORPORATION	V. R. PAI VERNEKER	N 12 01/06/89 \$102,788	DAVIS	89-NC-285
CRAY 2 CALCULATIONS ON NLO MOLECULES STATE UNIVERSITY OF NEW YORK	PRASAD PARAS	N 04 01/06/89 \$2,000	DAVIS	\$2,000 01/06/89 \$2,000
INSTALLATION, LICENSING, AND TESTING OF CADPAK QUANTUM CHEMICAL SOFTWARE ON THE CRAY 2 SUPERCOMPUTER AT THE WEAPONS LAB, KIRTLAND CAMBRIDGE UNIVERSITY (CAVENDISH LAB)	AMOS ROGER	N 04 01/06/89 \$5,000	DAVIS	\$5,000 01/06/89 \$5,000
THEORETICAL DETERMINATION OF POTENTIAL ENERGY SURFACES ON THE OZONE MOLECULE IOWA STATE UNIV OF SCIENCE AND TECH	RUEDENBERG	N 12 02/06/89 \$57,120	DAVIS	89-NC-291
INVESTIGATION OF HYPERVALENT COMPOUNDS AS HIGH-ENERGY MATERIALS UNIV OF OREGON	ENGELKING PAUL	N 12 02/06/89 \$98,897	DAVIS	89-NC-292
DYNAMICS AND ENERGETICS OF IONS AND RADICALS IN CONDENSED MEDIA UNIV OF CALIFORNIA	APKARIAN V	N 12 02/06/89 \$357,326	DAVIS	89-NC-293
STUDIES OF NITROCARBENES AND THEIR USE IN THE SYNTHESIS OF NOVEL HIGH ENERGY DENSITY MATERIALS UNIV OF PENNSYLVANIA	CAILEY, III WILLIAM	N 12 02/06/89 \$104,553	DAVIS	89-NC-294

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CRYOGENIC PRODUCTION AND STABILIZATION OF HIGH ENERGY DENSITY N2 AND O4 PHYSICAL SCIENCES INC	MARINELLI	N 12 05/06/89 \$158,260	DAVIS	89-NC-295
INTRAMOLECULAR DYNAMICS OF EXCITED TRANSIENT COMPLEXES IN CHEMICAL REACTIONS UNIV OF NEVADA	HYUNG	N 12 29/04/89 \$92,363	DAVIS	89-NC-307
NEW PERFLUOROFOLYETHERS AS POTENTIAL LUBRICANTS UNIV OF DURHAM	CHAMBERS	R 24 03/04/89 \$49,150	A MATUSZKC 89-NC-223	\$49,150
HIGHLY FLUORINATED NITROGEN-CONTAINING COMPOUNDS. NEW STABLE FLUIDS. IDAHO UNIVERSITY	SHREEVE	R 12 06/05/89 \$90,000	A MATUSZKC 89-NC-251	\$90,000
PICOSECOND LASER STUDIES OF CHEMICAL INTERMEDIATES COLUMBIA UNIVERSITY	EISENTHAL	R 12 09/05/89 \$140,005	A MATUSZKC 89-NC-254	\$140,005
PICOSECOND LASER STUDIES OF CHEMICAL INTERMEDIATES COLUMBIA UNIVERSITY	EISENTHAL	R 12 12/05/89 \$140,005	A MATUSZKC 89-NC-262	\$140,005
ULTRASTRUCTURE PROPERTY RELATIONSHIPS IN BIOMATERIALS UNIV OF WASHINGTON	SARIKAYA	N 18 25/05/89 \$75,000	A MATUSZKC 89-NC-272	\$75,000
SELENIUM RICH AND TELLURIUM RICH MOLECULES UNIV OF GEORGIA	KING	N 12 31/05/89 \$103,997	A MATUSZKC 89-NC-278	
ORGANOSILICON COMPOUNDS AND POLYMERS AND SILICON CERAMIC MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SEIFFERTH	R 12 14/06/89 \$230,000	A MATUSZKO 89-NC-301	\$230,000 01/10/89 \$460,000

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
TRANSITION METAL COMPLEXES WITH PERFLUORINATED LIGANDS DARTMOUTH COLLEGE	HUGHES RUSSELL	N 12 27/06/89 \$122,879	MATUSIKL 89-NC 394	
CENTER OF EXCELLENCE IN THEORETICAL GEOPLASMA RESEARCH (CURI) MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CHANG TOH	N 12 03/04/89 \$825,400	A STOBIE 89-NC-224	\$512,000 01/10/89 \$1,536,000
IDENTIFYING HIGH CHARGE REGIONS OF THUNDER CLOUDS UNIV OF NEVADA	TELFORD JAMES	N 12 06/04/89 \$50,000	D STOBIE 89-NC-227	
ELECTRICAL CONDUCTIVITY OF THE VERY-DISTURBED LOWER IONOSPHERE (CURI) PENNSYLVANIA STATE UNIVERSITY	MITCHELL JOHN	N 12 14/04/89 \$525,000	A STOBIE 69-NC-234	
THEORY AND ANALYSIS OF THE GEO-PLASMA ENVIRONMENT UTAH STATE UNIVERSITY	SCHUNK ROBERT	N 12 14/04/89 \$280,000	A STOBIE 89-NC-236	\$280,000 01/10/89 \$840,000
AUTOMATIC CLOUD CLASSIFICATION FROM MULTI-SPECTRAL SATELLITE DATA UNIV OF CALIFORNIA, SAN DIEGO	GAUTIER [REDACTED]	N 12 20/04/89 \$80,132	A STOBIE 89-NC-244	
LOCATION AND CHARACTERIZATION OF IN-CLOUD LIGHTNING CURRENTS BY MULTIPLE STATION VHF AND ELECTRIC FIELD MEASUREMENTS UNIV OF FLORIDA	EMEN THOMSON	N 12 24/04/89 \$68,225	A STOBIE 89-NC-247	
APPLICATION OF ARTIFICIAL INTELLIGENCE AND REMOTE SENSING TECHNIQUES TOWARD CLOUD FORECASTING IN THE TROPICS ANALYTIC SCIENCES CORPORATION	HUTCHINSON KEITH	N 12 19/05/89 \$113,340	A STOBIE 89-NC-267	
PARTIAL SUPPORT: NAS BOARD ON ATMOSPHERIC SCIENCE AND CLIMATE (BASC) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	HECHT ALAN	N 12 02/06/89 \$30,000	A STOBIE 89-NC-290	\$30,000 01/10/89 \$30,000

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
AN INVESTIGATION OF LARGE-AMPLITUDE MOUNTAIN WAVES IN A STABLY STRATIFIED AIRSTREAM UNIV OF COLORADO	BLUMEN	N 12 05/06/89 \$48,397	STOBIE 89-NC-296		
MICROPHYSICS OF THUNDERSTORM ELECTRIFICATION DAVID SARNOFF RESEARCH CENTER	WILLIAMS	N 12 07/06/89 \$92,616	STOBIE 89-NC-297		
STUDIES OF BAROCLINIC FLOW FLORIDA STATE UNIVERSITY	PFEIFFER	N 12 07/06/89 \$255,000	STOBIE 89-NC-298	\$85,000 01/10/89 \$255,000	
A NUMERICAL STUDY OF THUNDERSTORM ELECTRIFICATION UNIV OF WASHINGTON	BAKER	N 12 08/06/89 \$181,100	STOBIE 89-NC-299		
NUMERICAL SIMULATION STUDIES OF MOUNTAIN CREST-INDUCED ALONGSTREAM AGEOSTROPHY IN JET STREAKS AND THE MESO-BETA SCALE SEVERE STORM NORTH CAROLINA STATE UNIVERSITY	LIN	N 12 16/06/89 \$144,936	STOBIE 89-NC-302		
SBIR TECHNOLOGICALLY USEFUL NLO FILMS FOR POLYPHENYLENE VINYLENE AND ITS COPOLYMERS FOSTER-MILLER INC	DRUY	N 12 04/04/89 \$66,733	ULRICH 89-NC-225		
STAR BLOCK IONOMERS ATLANTA UNIVERSITY	KHAN	N 12 04/04/89 \$374,093	ULRICH 89-NC-226		
SYMPONIUM ON POLYMER-BASED MOLECULAR COMPSITES UNIV OF CINCINNATI	MARK	N 12 07/06/89 \$5,000	ULRICH 89-NC-228		
INVESTIGATION OF THE FACTORS INVOLVED IN CRACK FORMATION DURING DRYING OF SILICON SOL-GELS UNIV OF CONNECTICUT	BRADLEY	N 12 14/04/85 \$85,556	ULRICH 89-NC-230		

REPORT DATE 07/17/89

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CRYSTICAL AND ATMOSPHERIC SCIENCES

PAGE 7

TITLE	INVESTIGATOR	TYPE/MONTHS	STATUS	INITIATE
TITLE (CONT.)		RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	START DATE TOT AMT
INSTITUTION				
POLYMER GELS AS PRECURSORS TO HIGH-PERFORMANCE MATERIALS	MARK	N 12 14/04/89 \$503,492	ULRICH	89-1C-232
UNIV OF CINCINNATI				
(CURI) METALLOCENE LIQUID CRYSTALS AND LIQUID CRYSTAL POLYMERS	KENNETH	N 12 14/04/89 \$402,214	ULRICH	89-NC-239
UNIV OF OKLAHOMA	NICHCLAS			
CHARACTERIZATION AND DEVELOPMENT OF TRANSPARENT ELECTROACTIVE COPED LADDER-TYPE POLYMERS FOR NONLINEAR OPTICS	CAN	N 12 24/04/89 \$152,000	ULRICH	89-NC-248
HEBREW UNIVERSITY				
MOLECULAR COMPOSITES FROM ROC AND FLEXIBLE POLYQUINOLINES	JOHN	N 12 25/04/89 \$40,851	ULRICH	89-NC-249
COLORADO STATE UNIVERSITY	STILLE			
SYNTHESIS AND PROPERTIES OF NOVEL, ELECTRACITIVE ORGANOMETALLIC POLYMERS	MYRON	N 12 27/04/89 \$151,895	ULRICH	89-NC-250
BRANDEIS UNIVERSITY	ROSENBLUM			
CHARACTERIZATION AND DEVELOPMENT OF TRANSPARENT ELECTROACTIVE COPED LADDER-TYPE POLYMERS FOR NONLINEAR OPTICS	DAVICOV	N 12 05/05/89 \$152,000	ULRICH	89-NC-252
HEBREW UNIVERSITY				
PHASE TRANSFORMATIONS, ULTRASTRUCTURE AND PROPERTIES OF RIGID-ROD POLYMERS	EDWIN	N 12 08/05/89 \$195,698	ULRICH	89-NC-253
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	THOMAS			
ORGANIC MATERIALS FOR THIRD-ORDER NONLINEAR OPTICS	PENNER	N 12 09/05/89 \$370,035	ULRICH	89-NC-255
EASTMAN KODAK CO.				
SYMPOSIUM ON CHEMICAL PRECURSORS TO CERAMICS	TEREE	N 02 09/05/89 \$2,000	A ULRICH	\$2,000 01/09/89 \$2,000
AMERICAN CHEMICAL SOCIETY	FREO			

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ORGANIC MATERIALS FOR THIRD-ORDER NONLINEAR OPTICS EASTMAN KODAK CO.	PENNER THOMAS	N 12 09/05/89 \$370,039	A ULRICH 89-NC-257	
MATERIALS CHEMISTRY SYMPOSIUM AMERICAN CHEMICAL SOCIETY	LAINE RICHARD	N 12 10/05/89 \$5,000	A ULRICH 89-NC-259	\$5,000 13/06/89 \$5,000
FUNDAMENTAL STUDIES OF PRISTINE AND INTERCALATED CARBON FIBERS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	DRESSELHAUS MILDRED	R 12 11/05/89 \$241,890	A ULRICH 89-NC-260	
1989 MATERIALS RESEARCH SOCIETY SYMPOSIUM MATERIALS RESEARCH SOCIETY	KARASZ FRANK	N 06 22/05/89 \$25,000	A ULRICH 89-NC-268	\$25,000 15/09/89 \$25,000
AGGREGATION IN BLOCK COPOLYMER SYSTEMS NORTHWESTERN UNIVERSITY	DE LA CRLZ MONICA OLVERA	N 12 25/05/89 \$84,524	A ULRICH 89-NC-271	
AN INVESTIGATION OF CVD DIAMOND BASED COMPOSITE DESIGN AND FABRICATION PENNSYLVANIA STATE UNIVERSITY	YARBROUGH ANDREW	N 12 30/05/89 \$135,550	A ULRICH 89-NC-275	
US-JAPANESE JCINT WORKSHOP ON PROCESSING OF ADVANCED CERAMICS ARMY RESEARCH OFFICE	CROWSON ANDREW	N 12 30/05/89 \$7,500	A ULRICH 89-NC-276	\$7,500 08/08/88 \$7,500
IN SUPPORT OF US-JAPANESE JOINT WORKSHOP ON SMART MATERIALS AND STRUCTURES ARMY RESEARCH OFFICE	CROWSON ANDREW	N 12 30/05/89 \$7,500	A ULRICH 89-NC-277	\$7,500 01/02/90 \$7,500
MULTIFUNCTIONAL POLYMERIC MATERIALS: SYNTHESIS AND CHARACTERIZATION VIRGINIA POLYTECHNIC INST. & STATE UNIV	JAMES MCGRATH	N 12 01/06/89 \$90,762	A ULRICH 89-NC-289	

PROPOSAL STATUS REPORT (1 APR 86 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NOVEL MAIN GROUP CHEMISTRY VANDERBILT UNIVERSITY	LUKEHART CHARLES	N 12 22/06/89 \$106,031	ULRICH 89-NC-303	
SYNTHETIC HIERARCHICAL STRUCTURES NATIONAL ACADEMY OF SCIENCES	ZWILSKY KLAUS	N 17 29/05/89 \$10,000	ULRICH 89-NC-306	
MOLTEN SALT SYSTEMS FOR NEW REACTION CHANNELS UNIV OF WASHINGTON	POCKER YESHAYAU	N 12 14/04/89 \$352,089	WILKES 89-NC-240	
SHORT WAVELENGTH HYDROGEN FLUORIDE CHEMICAL LASERS ANTROPIX CORPORATION	KUNZ TERRY	N 12 21/04/89 \$61,746	WODARCZYK 89-NC-245	\$20,582 01/05/89 \$61,746
STATE-SELECTED AND STATE-TO-STATE CROSS SECTIONS FOR THE REACTIONS $O + (CS_2O, 2P) \rightarrow N_2O_2(CO_2)$ IOWA STATE UNIV OF SCIENCE AND TECH	NG CHEUK-YIU	N 12 24/04/89 \$108,346	WODARCZYK 89-NC-246	
12TH INTERNATIONAL CONFERENCE ON LASERS AND APPLICATIONS SOCIETY FOR OPTICAL/QUANTUM ELECTRONICS	HARRIS	N 06 16/05/89 \$5,000	WODARCZYK 89-NC-263	
DESIGN AND EVALUATION OF HIGH EFFICIENCY PROPELLANTS CORNELL UNIVERSITY	CARPENTER BARRY	N 12 31/05/89 \$209,610	WODARCZYK 89-NC-279	
DETERMINATION OF THE DETONATION MECHANISM OF COBS PROPELLANTS ROCKWELL INTERNATIONAL	SEDER I.A.	N 12 01/06/89 \$237,998	WODARCZYK 89-NC-286	

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PRCPOSAL #	INITIATE START DATE TOT AMT
ADAPTIVE NETWORKS FOR SEQUENTIAL DECISION PROBLEMS UNIV OF MASSACHUSETTS	ANDREW PARTCH	N 36 10/04/89 \$355,000	A GILES 89-NE-220	\$120,000 30/09/89 \$355,000
DESIGN AND IMPLEMENTATION OF CMOS NEURAL NETWORKS FOR BUILT-IN SELF-REPAIR OF VLSI CHIPS WITH EMBEDDED LOGIC AND MEMORY ARRAYS UNIV OF MICHIGAN	PINAKI	N 36 10/04/89 \$393,634	A GILES 89-NE-223	\$25,000 15/07/89 \$200,000
AN EVOLUTIONARY APPROACH TO DESIGNING NEURAL NETWORKS SRI INTERNATIONAL	BARNARD STEPHEN	N 24 11/04/89 \$200,000	A GILES 89-NE-224	\$25,000 15/07/89 \$200,000
USING MODULAR NEURAL NETWORKS WITH LOCAL REPRESENTATIONS TO CONTROL DYNAMIC SYSTEMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ATKESON CHRISTOPHER	N 36 14/04/89 \$360,000	A GILES 89-NE-231	\$130,000 01/09/89 \$360,000
ADAPTIVE NETWORK FOR PROCESS CONTROL UNIV OF PENNSYLVANIA	TYLER UNGAR	N 36 14/04/89 \$431,215	A GILES 89-NE-232	\$185,000 01/09/89 \$250,304
INVESTIGATING DIGITAL OPTICAL COMPUTING WITH SPATIAL LIGHT REBROADCASTERS (CSRLS) WRIGHT STATE UNIVERSITY	MCNAULAY ALLEN	N 24 14/04/89 \$250,304	A GILES 89-NE-233	
INTEGRATED OPTICAL COMPUTING UNIV OF SOUTHERN CALIFORNIA	STEIER WILLIAM	N 36 18/04/89 \$3,298,390	A GILES 89-NE-240	
NEURODYNAMICS: ALGORITHMS, ARCHITECTURES, PHOTONIC IMPLEMENTATIONS AND APPLICATIONS UNIV OF PENNSYLVANIA	FARHAT NEBIL	N 36 18/04/89 \$500,396	A GILES 89-NE-241	
A SCALING STUDY OF ARTIFICIAL NEURAL ASSOCIATIVE MEMORIES POSSESSING LIMITED CONNECTIVITY NORTHWESTERN UNIVERSITY	NUCGAEK PESHKIN	N 36 18/04/89 \$243,732	A GILES 89-NE-242	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ALGORITHMS FOR PARALLEL AND FAULT TOLERANT COMPUTING ON DISTRIBUTE D MEMORY MULTIPROCESSORS OHIO STATE UNIVERSITY	CIGUNER FUSUNT	N 36 18/04/89 \$206,436	GILES 89-NE-243	
ORGANIC ELECTRO-OPTIC AND ALL-OPTICAL MODULATORS AND SWITCHES UNIV OF ARIZONA	PEYGHAMBARIAN N.	N 36 20/04/89 \$329,967	GILES 89-NE-259	
POLARIZING OPTICAL SYSTEMS FOR DIGITAL OPTICAL COMPUTING WITH SYMMETRIC SELF ELECTROOPTIC DEVICES UNIVERSITY OF ALABAMA	CHIPMAN RUSSELL	N 24 20/04/89 \$140,000	A GILES 89-NE-260	\$113,000 01/08/89 \$140,000
CRYPTOELECTRONIC IMPLEMENTATION OF A COMPLETE VISION MODEL STUDY BALL SYSTEM ENGINEERING DIVISION	BOWMAN C.	N 36 24/04/89 \$600,813	GILES 89-NE-263	
SPEAKER INDEPENDENCE AND ACCENT ADAPTATION BY CONNECTIONIST NETWORK CARNEGIE-MELLON UNIVERSITY	WAIBEL ALEX	N 36 24/04/89 \$331,642	GILES 89-NE-264	
COMPUTATION AND LEARNING IN NEURAL NETWORKS WITH BINARY WEIGHTS UNIVERSITY OF PENNSYLVANIA	VENKATESH ALAN	N 36 27/04/89 \$203,500	A GILES 89-NE-266	\$70,500 01/09/89 \$203,500
NEW NEURAL ALGORITHMS FOR SELF-ORGANIZED LEARNING YALE UNIVERSITY	PERLIS	N 24 02/05/89 \$120,000	A GILES 89-NE-270	\$59,000 01/08/89 \$120,000
DEVICE STUDIES BASED ON MULTIPLE QUANTUM WELL LIGHT MODULATORS FOR OPTICAL COMPUTING UNIV OF CALIFORNIA, SAN DIEGO	SEENER SAIDI	N 36 04/05/89 \$517,642	GILES 89-NE-272	
ALGORITHM/ARCHITECTURE STUDY ON ARTIFICIAL NEURAL NETS PRINCETON UNIVERSITY	KUNG SUN-YUAN	N 36 15/05/89 \$300,000	A GILES 89-NE-278	\$108,000 01/09/89 \$300,000

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ULTRAFAST NONLINEAR OPTICS TO OPTICAL COMPUTING CITY COLLEGE - CUNY	ROBERT ALFANO	N 36 24/05/89 \$645,610	FILES 89-NE-285	
POLYMERIC ULTRATHIN FILM MULTILAYER MODULATORS UNIV OF CALIFORNIA	KOWELL STEPHEN	N 36 26/05/89 \$395,382	FILES 89-NE-286	
IEEE CONFERENCE ON NEURAL INFORMATION PROCESSING SYSTEMS - NATURAL AND SYNTHETIC UNIV OF COLORADO	KIRKPATRICK SCOTT	N 06 30/05/89 \$5,000	FILES 89-NE-287	
A NEURAL NETWORK ARCHITECTURE FOR MULTIAPERTURE OPTICAL SYSTEMS FOR MOTION DETECTION: EARLY AND INTERMEDIATE VISION STETSON UNIVERSITY	DAVID LAWSON	N 12 05/06/89 \$39,309	D FILES 89-NE-292	
NEURAL NETWORK MODELS FOR MOTOR LEARNING MASSACHUSETTS INSTITUTE OF TECHNOLOGY	MICHAEL JORDAN	N 36 20/06/89 \$365,277	FILES 89-NE-293	
AN INFORMATION THEORETIC APPROACH TO DISTRIBUTED INFERENCE AND LEARNING CALIFORNIA INSTITUTE OF TECHNOLOGY	GOODMAN	N 28 21/06/89 \$340,000	A FILES 89-NE-294	
ADAPTIVE IDENTIFICATION AND CONTROL OF DYNAMICAL SYSTEMS USING NEURAL NETWORKS YALE UNIVERSITY	NARENDRA K. S.	N 36 21/06/89 \$361,947	FILES 89-NE-295	
INTERNATIONAL SYMPOSIUM ON NEURAL NETWORKS FOR SENSORY AND MOTOR SYSTEMS (NSMS) NEUSS/DUSSELDORF(FRG) OFFICE OF NAVAL RESEARCH	ECKMILLER ROLF	N 03 22/06/89 \$7,000	FILES 89-NE-297	
PHOTONIC TECHNOLOGY FOR IMPLEMENTATION OF GENERALIZABLE NEURAL NETWORKS: A SYNTHETIC APPROACH UNIV OF SOUTHERN CALIFORNIA	JENKINS B. KEITH	N 28 23/06/89 \$800,000	A FILES 89-NE-299	\$253,580 30/09/89 \$713,580

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
DEVELOPMENT OF NEURAL MODULES BASED ON Si/PLZT TECHNOLOGY FOR OPTOELECTRONIC IMPLEMENTATION OF NEURAL NETWORKS UNIV OF CALIFORNIA, SAN DIEGO ESENER S.		N 24 23/06/89 \$400,000	A GILES 89-NE-300	\$200,000 01/10/89 \$400,000
OPTICAL ASSOCIATIVE PROCESSORS AND DIRECTED GRAPHS CARNEGIE-MELLON UNIVERSITY	CASASENT DAVID	N 36 23/06/89 \$157,720	GILES 89-NE-301	
NEURAL NETWORKS FOR MODEL-BASED RECOGNITION YALE UNIVERSITY SCHOOL OF MEDICINE	GINDI GENE	R 36 26/06/89 \$386,580	GILES 89-NE-302	
ALGORITHMS AND ARCHITECTURES FOR REAL-TIME ROBOT CONTROL UNIV OF CALIFORNIA HSIA T.C.		N 24 30/06/89 \$231,607	GILES 89-NE-307	
SPATIAL LIGHT MODULATORS WITH ARBITRARY QUANTUM WELL PROFILES ARIZONA STATE UNIVERSITY BAJAJ KRISHAN		N 36 18/04/89 \$1,200,361	LITTON 89-NE-239	
STUDY OF ULTRATHIN EPITAXIAL INTERMETALLIC FILMS ON III-V MATERIAL S GROUP, BY MOLECULAR BEAM EPITAXY MONTANA STATE UNIVERSITY LAPEYRE		N 36 18/04/89 \$1,410,600	LITTON 89-NE-246	
GROWTH AND PROCESSING OF COMPOUND SEMICONDUCTORS CARNEGIE-MELLON UNIVERSITY MAHAJAN S.		N 22 18/04/89 \$2,296,673	LITTON 89-NE-247	
CRYOELECTROSYNTHESIS OF COMPOUND SEMICONDUCTORS MASSACHUSETTS INSTITUTE OF TECHNOLOGY SADOWAY DONALD		N 36 18/04/89 \$118,231	LITTON 89-NE-249	
A NOVEL PHOTO-ACTIVATED ELECTRODE TECHNIQUE FOR SURFACE FATTERRING STEVENS INSTITUTE OF TECHNOLOGY SHEPPARD KEITH		N 36 19/04/89 \$378,397	LITTON 89-NE-250	

REPORT DATE 07/17/89

FROPSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 5

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CONDUCTION BAND INTERFACE STATES IN II-VI/III-V HETEROPITAXIAL SEMICONDUCTORS MONTANA STATE UNIVERSITY	WAYNE FORD	N 36 19/04/89 \$158,100	LITTON 89-NE-251	
EXPLORATORY DEVELOPMENT IN WHISPERING-GALLERY MILLIMETER WAVE WAVEGUIDE TECHNOLOGY WRIGHT STATE UNIVERSITY	EPPERS WILLIAM	N 15 24/04/89 \$118,504	LITTON 89-NE-261	
SEVENTEENTH ANNUAL CONFERENCE ON THE PHYSICS & CHEMISTRY OF SEMICONDUCTOR INTERFACES UNIV OF FLORIDA	JACK RONE	N 12 01/05/89 \$8,400	LITTON 89-NE-268	\$8,400 30/09/89 \$8,400
DIAGNOSTICS OF A CHEMICALLY REACTIVE FLOW: CHEMICAL VAPCR DEPOSITION UNIV OF ICWA	ALLEN SUSAN	N 36 01/05/89 \$586,640	LITTON 89-NE-269	
MAGNETO-OPTICAL PROPERTIES OF QUANTUM WELLS WITH ARBITRARY POTENTIAL PROFILES ARIZONA STATE UNIVERSITY	BAJAJ KRISHNA	N 36 18/05/89 \$400,000	LITTON 89-NE-280	\$75,000 15/09/89 \$400,000
ATOMIC FORCE MICROSCOPY STANFORD UNIVERSITY	QUATE [REDACTED]	N 36 31/05/89 \$470,130	LITTON 89-NE-288	
LOW ENERGY ION IMPLANTATION FOR ULTRA-SHALLOW JUNCTION FORMATION NORTH CAROLINA STATE UNIVERSITY	RUGGLES GARY	N 24 02/06/89 \$299,967	LITTON 89-NE-291	
GENERIC CONSEQUENCES OF FUNDAMENTAL STUDIES OF BETA PHASE DECOMPOSITION MODES IN TITANIUM AND RELATED ALLOY SYSTEMS CARNEGIE-MELLON UNIVERSITY	RUBERT AARONSON	N 24 03/04/89 \$294,915	ROSENSTEIN 89-NE-217	\$166,000 30/09/89 \$298,915
STRENGTH AND TOUGHNESS IMPROVEMENT OF SILICIDE INTERMETALLICS BY NANOPHASE AND MICROPHASE REINFORCEMENTS McDONNELL DOUGLAS RESEARCH LAB	SAstry S. M. L.	N 36 03/04/89 \$390,264	ROSENSTEIN 89-NE-218	\$124,341 01/10/89 \$390,264

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PRCPOSAL #	INITIATE START DATE TOT AMT
FUNDAMENTALS OF MECHANICAL BEHAVIOR IN ADVANCED INTERMETALLIC COMPOUNDS CARNEGIE-MELLON UNIVERSITY	HOWE JAMES	N 36 13/04/89 \$379,933	A ROSENSTEIN 89-NE-230	\$118,662 01/10/89 \$379,933
INTERMETALLIC COMPOUNDS FOR HIGH-TEMPERATURE STRUCTURES CARNEGIE-MELLON UNIVERSITY	THOMPSON ANTHONY	N 36 18/04/89 \$2,240,322	A ROSENSTEIN 89-NE-244	
CENTER FOR ADVANCED STRUCTURAL METALLIC MATERIALS: INTERFACE DESIGN IN INTERMETALLIC ALLOYS AND COMPOSITES UNIV OF MICHIGAN	GIBALA RONALD	N 36 18/04/89 \$1,890,000	A ROSENSTEIN 89-NE-245	
DEVELOPING AND UNDERSTANDING THE HIGH TEMPERATURE BEHAVIOR OF NIOBIC ALUMINIDES AND NIQUBIUM ALUMINIDE COMPOSITES UNIV OF TEXAS	TIEN JOHN	N 36 19/05/89 \$370,227	A ROSENSTEIN 89-NE-282	\$117,428 01/11/89 \$370,227
KINETIC AND THERMODYNAMIC CHARACTERISTICS OF INTERMETALLIC MATERIALS PROCESSING UNIV OF UTAH	SCHLESINGER MARK	N 36 01/06/89 \$296,155	A ROSENSTEIN 89-NE-290	
NUCLEATION AND GROWTH IN CHEMICAL VAPOR DEPOSITION OAK RIDGE NATIONAL LAB	BESMANN	N 36 06/04/89 \$692,608	A SCHIOLER 89-NE-219	\$142,608 01/05/89 \$692,608
MRS SYMPOSIUM ON CHEMICAL VAPOR DEPOSITION OF REFRACORY METALS AND CERAMICS UNIV OF WESTERN ONTARIO	BALLANCE JOHN	N 12 12/04/89 \$5,000	A SCHIOLER 89-NE-227	\$5,000 01/10/89 \$5,000
A RESEARCH INITIATIVE FOR ADVANCED CARBON COMPOSITE AND RELATED MATERIALS PENNSYLVANIA STATE UNIVERSITY	TRESSLER RICHARD	N 36 12/04/89 \$2,652,887	A SCHIOLER 89-NE-228	
URI CENTER FOR ALLOY DESIGN FOR ADVANCED STRUCTURAL CERAMICS UNIV OF MICHIGAN	CHEN I-WEI	N 36 19/04/89 \$2,269,340	A SCHIOLER 89-NE-252	

REPORT DATE 07/17/89

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 7

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
X-RAY TOMOGRAPHIC MICROSCOPY AND PHYSICALLY-BASED MODELING FOR IMPROVED CHEMICAL VAPOR INFILTRATION OF SILICON CARBIDE COMPOSITES GEORGIA TECH RESEARCH CORPORATION	STUART	N 36 19/04/89 \$1,000,569	SCHIOLER 89-NE-253	
DISPLACIVE TRANSFORMATIONS IN CERAMICS UNIV OF ILLINOIS	KRIVEN	N 36 19/04/89 \$2,096,312	SCHIOLER 89-NE-254	
THIN FILM SYNTHESIS BY THE TRIODE ION PLATING PROCESS LOUISIANA STATE UNIVERSITY	MELETIS E.	N 36 19/04/89 \$397,635	SCHIOLER 89-NE-256	
HIGH CONDUCTIVITY STRUCTURAL COMPOSITES UNIV OF NEBRASKA	DILLON	N 36 19/04/89 \$271,895	SCHIOLER 89-NE-257	
MRS SYMPOSIUM ON TAILORED INTERFACES IN COMPOSITE MATERIALS MATERIALS RESEARCH SOCIETY	BALLANCE JOHN	N 12 A 12/05/89 \$5,000	SCHIOLER 89-NE-276	\$5,000 01/10/89 \$5,000
GROUP INTERNATIONAL TRAVEL TO VIITH WORLD ROLAD TABLE CONFERENCE ON SINTERING ON SINTERING NEW YORK STATE COLLEGE OF CERAMICS	SPRIGGS	N 12 A 18/05/89 \$5,029	SCHIOLER 89-NE-281	\$5,029 01/08/89 \$5,029
CENTER FOR THIN FILM STUDIES UNIV OF ARIZONA	MACLEOD H. ANGUS	N 36 18/04/89 \$3,285,905	SCHLOSSBER 89-NE-248	
SUPERCONDUCTING DETECTOR FABRICATION PROGRAM UNIV OF ARIZONA	CERENIAK	N 24 18/04/89 \$322,000	WEINSTOCK 89-NE-238	
FABRICATION OF MICROWAVE WAVEGUIDE USING HIGH TC SUPERCONDUCTORS BRIMROSE CORP. OF AMERICA	TRIVEDI S.	N 06 A 24/04/89 \$76,835	WEINSTOCK 89-NE-265	\$76,835 01/08/89 \$76,835

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FUNDAMENTAL RELAXATION TIMES OF ELEMENTARY EXCITATION AND QUASI PARTICLES IN NON-EQUILIBRIUM SUPERCONDUCTING STATES CITY UNIV OF NEW YORK RSCH FOUNDATION ALFANCI	ROBERT	N 36 03/05/89 \$481,554	D WEINSTOCK 89-NE-271	
ELECTRONIC FLUCTUATION AND MATERIALS PHYSICS CORNELL UNIVERSITY	ASHCRAFT	N 36 11/05/89 \$328,192	D WEINSTOCK 89-NE-275	
ENHANCED SUPERCONDUCTORS CHRONOS RESEARCH LABS INC.	CLESEN	N 24 12/05/89 \$499,955	A WEINSTOCK 89-NE-277	\$250,000 01/09/89 \$499,955
DEVELOPMENT OF SUPERCONDUCTIVE MICROPROBES FOR EDDY CURRENT EVALUATION OF MATERIALS PHYSICAL CYNAMIC INC	PODNEY	N 24 18/05/89 \$399,611	D WEINSTOCK 89-NE-279	
THEORY OF CHIRAL SPIN LIQUIDS AND STRONGLY CORRELATED LATTICE FERMIONS UNIV OF PENNSYLVANIA HELE		N 36 22/05/89 \$687,163	D WEINSTOCK 89-NE-283	
COMPUTER ORIENTED MULTICHANNEL DC-SQUID SYSTEM AND ITS APPLICATIONS IN A NEW TYPE OF FOCAL PLANE VISIBLE/IR DETECTORS APPLIED RESEARCH CORPORATION DRUKIER		N 24 22/06/89 \$499,247	D WEINSTOCK 89-NE-296	
IN-SITU FAULT DETECTION BY THE HYBRID RAY-MOCO METHOD POLYTECHNIC INSTITUTE OF NEW YORK WITHERS	FELSON	R 24 26/06/89 \$150,179	D WEINSTOCK 89-NE-303	
THIN-FILM AIS SUPERCONDUCTORS, DIELECTRICS, AND INTERFACES LINCOLN LABORATORY/MIT	LEOPOLD	N 12 30/06/89 \$358,000	A WEINSTOCK 89-NE-308	\$358,000 01/10/89 \$1,158,000
PLANAR RESONANT TUNNELING FIELD-EFFECT TRANSISTORS MASSACHUSETTS INSTITUTE OF TECHNOLOGY ANTONIADIS	RICHARD	N 24 03/04/89 \$491,772	A WEINSTOCK 89-NE-216	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MUNITS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CHEMICAL VAPOR DEPOSITION OF THIN COPPER FILMS AND COPPER- CONTAINING MATERIALS USING CYCLOPENTADIENYL COPPER COMPLEXES IDAH0 UNIVERSITY	THOMAS	N 36 10/04/89 \$612,746	WITT 89-NE-221	
OPTICALLY CONTROLLED MICROWAVE STRUCTURES UNIV OF TEXAS	ITOH	N 36 10/04/89 \$1,133,005	WITT 89-NE-222	
ORDERED SEMICONDUCTOR ALLOYS, HETEROSTRUCTURES AND ZCEG SYSTEMS: GROWTH, OPTICAL AND THEORECTICAL STUDIES UNIV OF MISSOURI	CHANDRASEKHAR MEERA	N 36 11/04/89 \$907,897	WITT 89-NE-225	
NUMERICAL MODELING OF MULTI-TERMINAL QUANTUM WELL DEVICES-PHASE II SCIENTIFIC RESEARCH ASSOCIATES, INC.	GRUBIN HAROLD	N 24 11/04/89 \$495,989	WITT 89-NE-226	
SELECTIVE AREA EPITAXY OF COMPOUND SEMICONDUCTORS BY ORGANOMETALLI- C CHEMICAL VAPOR DEPOSITION UNIV OF MASSACHUSETTS	LAU	N 36 18/04/89 \$595,864	WITT 89-NE-234	
BETA SILICON CARBIDE: MICRO-DOSIMETRIC RADIATION RESPONSE OF BETA-SIC IN COMPARISON WITH GAAS AND SI IN BULK, IN CUSTOM MOS STRUCTURE CLAREMONT UNIVERSITY	KEI MAY	N 36 18/04/89 \$705,765	WITT 89-NE-235	
TIME AND SPATIAL RESOLVED BALLISTIC ELECTRON TRANSPORT IN HETERO- EPITAXIAL SEMICONDUCTOR STRUCTURES CITY COLLEGE - CUNY	ALFANO	N 36 18/04/89 \$1,117,903	WITT 89-NE-236	
TRANSPORT IN HETEROSTRUCTURES AND DEVICES IN MICROWAVE AND MILLIMETER-WAVE REGIMES UNIV OF MICHIGAN	MOURGU GERARD	N 36 20/04/89 \$3,489,050	WITT 89-NE-258	
INVESTIGATION OF GAAS EPITAXIAL LAYERS GROWN BY MOLECULAR BEAM EPITAXY AT LOW TEMPERATURE LINCOLN LABORATORY/MIT	CALAWA ARTHUR	N 30 28/04/89 \$345,115	A WITT 89-NE-267	\$45,085 01/04/89 \$45,085

REPORT DATE 07/17/89

PROPOSAL STATUS REPORT (1 AFR 89 - 30 JUN 89)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 10

TITLE	TYPE/MONTHS	STATUS	INITIATE
TITLE (CONT.)	RECEIVEC AMOUNT	PROGRAM MANAGER	START DATE
INSTITUTION	PROPOSAL #		TO/T AMT
DEGRADATION MECHANISMS IN COMPOUND SEMICONDUCTOR DEVICES AND STRUCTURES	N 12 01/06/99 \$3,000	WITT	
MATERIALS RESEARCH SOCIETY	JOHN BALANCE		89-NE-289
STRUCTURAL INVESTIGATIONS OF LOW-TEMPERATURE GROWN MPE GAAS LAYERS	N 36 23/06/89 \$442,864	WITT	89-NE-298
UNIV OF CALIFORNIA	LILIENTAL_WEEBER ZUZANNA		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
LOCUS COERULEUS, VIGILANCE AND STRESS: BRAIN MECHANISMS OF ADAPTIVE BEHAVIORAL RESPONSIVENESS HAHNEMANN UNIVERSITY	GARY ASTON-JONES	N 36 03/04/89 \$649,772	BERRY	
4TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL ERGONOMICS UNIV OF TEXAS	EUGENE WISSLER	N 13 13/04/89 \$10,120	A BERRY	\$10,120 15/09/89 \$10,120
MULTIPLE NEURON RECORDING IN THE HIPPOCAMPS OF FREELY MOVING ANIMALS (URI) WAKE FOREST UNIVERSITY	SAM DEADWYLER	N 36 17/04/89 \$403,740	BERRY	
STUDIES OF COUPLING OF NON-LINEAR OSCILLATORS: INTERSEGMENTAL COORDINATION IN THE VERTEBRATE Locomotory CENTRAL PATTERN GENERATOR UNIV OF CALIFORNIA	KAREN SIGVARDT	N 36 17/04/89 \$156,578	BERRY	
PERFORMANCE MODIFICATION BY ATTENTIONAL DRUGS, THERMOREGULATORY AGONISTS, AND MOLECULAR EFFECTS OF COOL STRESS AT A SINGLE BRAIN SITE UNIV OF MISSOURI	GARTH RESCH	N 36 17/04/89 \$337,259	BERRY	
EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF RANDOM NETWORK DYNAMICS UNIV OF NORTH TEXAS	GROSS	N 36 17/04/89 \$631,321	BERRY	
CIRCADIAN MORPHOCYClicity OF THE HUMAN BRAIN UNIV OF CALIFORNIA	BEATTY JACKSON	N 36 17/04/89 \$468,655	BERRY	
BEHAVIORAL MECHANISMS OF THALAMIC MODULATION CURING SHIFTS IN ATTENTION UNIV OF MICHIGAN	MORRISON THOMAS	N 60 17/04/89 \$608,528	BERRY	
CORTICAL MECHANISMS OF ATTENTION, DISCRIMINATION, AND MOTOR RESPONSE: SE TO SOMESTHETIC STIMULI HAHNEMANN UNIVERSITY	JOHN CHAPIN	N 36 17/04/89 \$530,691	BERRY	
				89-NL-204 89-NL-205

TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NEOSTRIATAL NEURONAL ACTIVITY AND BEHAVIOR	UNIV OF TEXAS	WOODWARD	DONALD	N 36 17/04/89 \$441,344	BERRY 89-NL-206
MODELING CORTICAL CIRCUITRY ON A MASSIVELY PARALLEL SUPERCOMPUTER	UNIV OF TEXAS	NASH	PATRICK	N 36 18/04/89 \$461,714	BERRY 89-NL-214
MECHANISM OF REGULATION OF CATECHOLAMINE BIOSYNTHESIS IN STRESS	NEW YORK MEDICAL COLLEGE	SABBAN	ESTHER	N 36 18/04/89 \$484,731	BERRY 89-NL-215
CHARACTERIZATION OF BRAINSTEM CHOLINERGIC NEURONS (CM5-6) EXTRACELLULAR ACTIVITY IN RELATION TO AROUSAL AND SENSORY STIMULATION	UNIV OF DELAWARE	STEVEN		N 36 18/04/89 \$215,673	BERRY 89-NL-216
REVERSE ENGINEERING BIOLOGICAL NEURAL NETWORKS: MODELS AND EXPERIMENTAL SETUP	UNIV OF FLORIDA	PRINCIPLE	JOSÉ	N 36 18/04/89 \$820,541	BERRY 89-NL-217
THE ORGANIZATION OF THE SUPRACHIASMATIC CIRCadian PACEMAKER OF THE RAT AND ITS REGULATION BY NEUROTRANSMITTERS AND MODULATORS	UNIV OF FLORIDA	GILLETTE		N 36 18/04/89 \$667,619	BERRY 89-NL-218
SOMATOTROPES AND STRESS: ANALYSIS OF SOMATOTROPIC HORMONE PROCESSING CAPABILITY USING A TRANSFECTED PEPTIDE HORMONE PRECURSOR	NEW YORK MEDICAL COLLEGE	EDWARD	CULLEN	N 36 18/04/89 \$462,151	BERRY 89-NL-219
EFFECT OF FOG INGREDIENTS ON NEUROCHEMICALS THAT MODULATE NEURONAL RESPONSIVENESS AND BEHAVIORAL REACTIVITY	PRINCETON UNIVERSITY	MOEBEL	BARTLEY	N 60 18/04/89 \$968,400	BERRY 89-NL-220
ROLE OF LOCUS COeruleus ACTIVITY IN REGULATION OF BEHAVIORAL RESPONSEIVENESS	HAHNEMANN UNIVERSITY	ASTON-JONES	GARY	N 06 19/04/89 \$32,579	A BERRY 89-NL-223
					\$32,421 89/01/05 \$32,421

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
TESTS OF A MCCOLL OF SENSATION MATCHING FOR SIMPLE AND COMPLEX STIM ULI UNIV OF MARYLAND	PENNER MERRILYNN	N 36 03/05/89 \$243,419	BERRY 89-NL-248	
ANALYSES OF THE HIPPOCAMPAL SYSTEM IN ASSOCIATIVE LEARNING: NEUROB EHAVIORAL, CELLULAR, AND MOLECULAR, APPROACHES NORTHWESTERN UNIVERSITY	DISTERHOFT JOHN	N 36 04/05/89 \$777,648	BERRY 89-NL-250	
GLYCINE-MIMETICS AS MODULATORS OF MEMORY UNIV OF PITTSBURGH	KOZIKOWSKI ALAN	N 36 04/05/89 \$567,064	BERRY 89-NL-251	
PRESYNAPTIC MODULATION OF THE HIPPOCAMPAL MOSSY FIBER SYNAPSE EAST CAROLINA UNIVERSITY	TERRIAN DAVID	N 36 07/06/89 \$666,620	BERRY 89-NL-260	\$285,382 15/09/89 \$661,620
STRATEGIES TO SUSTAIN AND ENHANCE PERFORMANCE IN STRESSFUL ENVIRONMENTS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	LIEBERMAN ROBERTS ROBERTS	R 36 07/06/89 \$242,260	BERRY 89-NL-263	
LOCATION OF THE PARTS OF AN EXPERIMENTAL-PSYCHOLOGY MODEL IN RAT & RAIN UNIV OF CALIFORNIA	SATKOFF JAMES	N 36 14/06/89 \$326,966	BERRY 89-NL-276	
CENTRAL & PERIPHERAL SIGNIFICANCE OF NEUROPEPTIDE Y NEW YORK ACADEMY OF SCIENCES	KOENIG	N 12 23/06/89 \$10,000	BERRY 89-NL-279	
TEMPORAL CONTROL OF DRUG DELIVERY NEW YORK ACADEMY OF SCIENCES	HRUSKESKY WILLIAM	N 12 23/06/89 \$10,000	BERRY 89-NL-280	
SUBSTANCE P AND RELATED PEPTIDES: CELLULAR AND MOLECULAR PHYSIOLOGY NEW YORK ACADEMY OF SCIENCES	LEEMAN SUSAN	N 12 23/06/89 \$10,000	BERRY 89-NL-281	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE START DATE TOT AMT		STATUS PROGRAM MANAGER PROPOSAL #	TYPE/MONTHS RECEIVED AMOUNT
FRESYNAPTIC RECEPTORS & QUESTIONS OF AUTOREGULATION OF NEUROTRANSMITTER RELEASE NEW YORK ACADEMY OF SCIENCES	KALSMER	N 12 23/06/89 \$10,000	BERRY 89-NL-292		
CUMULATIVE EFFECT OF REPEATED BRIEF CEREBRAL ISCHEMIA UNIV OF ALABAMA	JAMES	N 12 07/04/89 \$61,681	CERVERNY 89-NL-195		
ASM ANNUAL MEETING SUPPORT AMERICAN SOCIETY FOR MICROBIOLOGY	ALAN	N 12 13/04/89 \$7,000	CERVERNY 89-NL-197		
STUDY OF INTERACTION OF PREFERENTIAL WATER FLOW AND BIOGRADATION TO INCREASE EFFECTIVENESS OF BIORECLAMATION IN HETEROGENEUS SOILS CORNELL UNIVERSITY	STEENHUIS	N 36 19/04/89 \$161,730	CERVERNY 89-NL-224		
DEVELOPMENT OF AN IMPROVED GROUP CONTRIBUTION METHOD FOR ESTIMATING PERCUTANEOUS PENETRATION BY TOXIC CHEMICALS COLORADO SCHOOL OF MINES	BUNGE	N 36 19/04/89 \$367,091	CERVERNY 89-NL-225		
PANCREATIC TOXICITY OF GLUTATHIONE AND CYTINE S-CONJUGATES UNIV OF ROCHESTER	ANCERS	N 36 19/04/89 \$470,286	CERVERNY 89-NL-226		
DEVELOPMENT OF A MODEL TO PREDICT PESTICIDE RESIDUE TRANSFER FROM FOLIAGE TO BATTLE DRESS UNIFORM FABRIC: LOUISIANA STATE UNIVERSITY	CLCUC	N 36 19/04/89 \$224,443	CERVERNY 89-NL-227		
NEURROTOXIC EFFECTS OF ALUMINUM HEBREW UNIVERSITY	MEIRI	N 36 19/04/89 \$96,448	CERVERNY 89-NL-228		
INVESTIGATIONS OF REACTIVE AND NONREACTIVE SILICATE TRANSPORT THROUGH CHEMICALLY AND PHYSICALLY NONHOMOGENEOUS POROUS MEDIA UNIV OF FLORIDA	MATFIELD	N 36 19/04/89 \$385,046	CERVERNY 89-NL-229		

PROPOSAL STATUS REPORT (1 AFR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF LIFE SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ENDANGERED/TREATMENT PLANT RESPONSE TO HERBICIDES UNIV OF FLORIDA	BEWICK THOMAS RICHARD	N 36 19/04/89 \$297,095	CERVENY	89-NL-230
AQUATIC ANIMALS AS SENTINELS FOR REDOX-ACTIVE GENOTOXINS DUKE UNIVERSITY	CI GIULIO	N 36 20/04/89 \$234,382	CERVENY	89-NL-231
BIODEGRADATION OF JET FUEL-4 (JP-4) IN SEQUENCING BATCH REACTORS UTAH STATE UNIVERSITY	EUMPUUS JOHN	N 36 20/04/89 \$311,527	CERVENY	89-NL-232
THRESHOLD OF INJURY TO RETINAL CIRCULATION INDUCED BY CHRONIC RF RADIATION UNIV OF TEXAS	FARRAR ROGER	N 36 20/04/89 \$297,634	CERVENY	89-NL-233
GENETIC ENGINEERING TO EXPAND THE CATABOLIC PATHWAYS OF MICROORGANISMS UNIV OF FLORIDA	CHAUDHRY RASUL	N 24 20/04/89 \$166,942	CERVENY	89-NL-234
EFFECTS OF CHEMICAL & MICROBIOLOGICAL DEGRADATION KINETICS UPON THE TRANSPORT OF HYDRAZINE & UCNH WITH UNSTEADY WATER FLOW IN UNSATURATED UNIV OF FLORIDA	J. L. HILL	N 36 20/04/89 \$228,160	CERVENY	89-NL-235
THE MOLECULAR ANATOMY OF PFOA HEPATOXICITY AS STUDIED BY TWO-DIMENSIONAL ELECTROPHORESIS INDIANA UNIVERSITY-PURDUE UNIV AT INCFLS	WITZMANN FRANK	N 36 20/04/89 \$283,044	CERVENY	89-NL-236
EFFECT OF HYDROPHOBIC MOLECULES ON MITOCHONDRIA AND MITOCHONCRIAL PROTEINS OKLAHOMA STATE UNIVERSITY	HARMON JAMES	N 12 28/04/89 \$160,534	A CERVENY	\$61,000 31/07/89 \$61,000
THE EXISTING AND POTENTIAL VALUE OF BIOMARKERS IN EVALUATING EXPOSURE AND ENVIRONMENTAL EFFECTS OF TOXIC CHEMICALS SOCIETY OF ENVIRON. TOXICOLOGY & CHEM.	MUGGETT ROBERT	N 12 16/05/89 \$10,000	A CERVENY	\$15,000 15/07/89 \$15,000

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FSEUCOMONAS: PATHOGENICITY, BIOTRANSFORMATIONS, AND EMERGING BIOTECHNOLOGY AMERICAN SOCIETY FOR MICROBIOLOGY	SILVER	N 12 16/05/85 \$15,000	A CERVENY 89-NL-253	\$15,000 09/07/89 \$15,000
NMR CHARACTERIZATION OF PRODUCTS FORMED IN DIAZOTIZING MIXTURES OF LUMINOL AND 3-AMINO-L-TYROSINE	JOHN	N 12 24/05/89 \$38,875	A CERVENY 89-NL-258	\$38,875 15/09/89 \$38,875
AQ AFESC REQUIREMENTS FOR LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY	CORNETTE	N 03 06/06/89 \$40,000	A CERVENY 89-NL-259	\$40,000 01/07/89 \$40,000
IN SITU BIODEGRADATION OF NITROAROMATIC COMPOUNDS IN SOIL	JIMMY	N 60 12/05/89 \$600,200	CERVENY 89-NL-265	
IDAHO UNIVERSITY	RONALD			
INDUCTION OF ORGANOCHLORINE BINDING PROTEINS	CURTIS	N 36 12/06/89 \$317,765	CERVENY 89-NL-266	
OREGON STATE UNIVERSITY	LAWRENCE			
DEVELOPMENT OF METHODS FOR DETECTION OF LIPID PEROXIDATION PRODUCTS IN HUMAN TISSUES GENERATED BY ENVIRONMENTAL TOXINS	G.M. VAN KUIJK	N 36 13/06/89 \$396,963	CERVENY 89-NL-267	
MONTANA STATE UNIVERSITY	PETERSON	N 24 13/06/89 \$184,392	CERVENY 89-NL-268	
UNIV OF WYOMING	NANCY			
MOLECULAR MECHANISM OF DICININ ACTION: MOLECULAR CLONING OF THE AH RECEPTOR USING A DNA RECOGNITION SITE PROBE	MICHAEL	N 12 13/06/89 \$80,000	CERVENY 89-NL-269	
MICHIGAN STATE UNIVERSITY				
DOSE DEPENDENT EFFECTS OF CHROMATE ON CULTURED CELLS	ROBERT	N 36 13/06/89 \$422,679	CERVENY 89-NL-270	
VANDERBILT UNIVERSITY	BRIGGS			

FROPOSAL STATUS REPORT (1 APR 89 - 30 JUL 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF LIFE SCIENCES

TITLE	TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE / MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
BIOENVIRONMENTAL HAZARDS AND DNA REPAIR		WAYNE STATE UNIVERSITY	SMITH	N 12 13/06/89 \$75,044	CERVERY	89-NL-271
INVESTIGATION OF THE HEPATOTOXIC AND IMMUNOTOXIC EFFECTS OF THE PE TOXICME FROLIFERATOR PERFLUORODECANIC ACID	CHIO STATE UNIVERSITY	TARR	CENNIS	N 36 13/06/89 \$344,628	CERVERY	89-NL-272
METABOLIC ACTIVATION/CETOXICATION MECHANISMS IN HUMAN HEF G2 CELLS	UNIV CF ALABAMA	LAMARTINIÈRE	MELINDA	N 36 13/06/89 \$356,813	CERVERY	89-NL-273
A COMPARATIVE STUDY REGARDING THE ASSOCIATION OF ALPHA-2L GLOBULIN WITH THE NEPHROTOXIC OF CERTAIN PÉTROLEUM-BASED AIR FORCE FUELS	UNIV OF ILLINOIS	EURELL	CORAL	R 36 13/06/89 \$211,041	CERVERY	89-NL-274
INTERACTIONS AMONG DRINKING AND GROUND WATER CONTAMINANTS ON RENAL AND PEPATIC FUNCTION	UNIV CF NEBRASKA MEDICAL CENTER	BERNET	WILLIAM	R 48 13/06/89 \$974,994	CERVERY	89-NL-275
NEUROPHYSIOLOGICAL IMPLEMENTATION OF A SCHEME FOR VISUAL SELECTIVE ATTENTION	MRC APPLIED PSYCHOLOGY UNIT	CUNCAN	JOHN	N 12 07/04/89 \$51,521	A FREGLY	89-NL-192
JUDG AND AI APPROACHES TO EXPERT JUDGMENT UNDER UNCERTAINTY	UNIV OF COLORADO	BRADSHAW	GARY	N 36 18/04/89 \$910,242	D FREGLY	89-NL-211
MEASUREMENT OF FACIAL EXPRESSION	UNIV OF FLORIDA	LEONARD	CHRISTIANA	N 36 18/04/89 \$321,712	D FREGLY	89-NL-212
FINDING STRUCTURE IN TIME	UNIV OF CALIFORNIA, SAN DIEGO	ELMAN	JEFFREY	N 36 19/04/89 \$511,535	O FREGLY	89-NL-213

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
				FORMS OF MEMORY FOR REPRESENTATIONS OF VISUAL OBJECTS	SCHACTER
COGNITION AND THE BRAIN: A CONTINUATION OF THE UNIVERSITY RESEARCH INITIATIVE AT NEW YORK UNIVERSITY NEW YORK UNIVERSITY	KAUFFMAN	LLOYD	R 36 18/04/89 \$1,002,093	FREGLY 89-NL-222	
COMPARATIVE ANALYTICAL STUDY OF EVOVED AND EVENT RELATED POTENTIALS AS CORRELATES OF COGNITIVE PROCESSES UNIV OF CALIFORNIA	BULLOCK	THEODORE	N 06 26/04/89 \$5,678	A FREGLY 89-NL-241	\$5,678 01/08/89 \$5,678
CONFERENCE ON THE FUNCTIONAL IMAGING OF THE HUMAN NERVOUS SYSTEM JOHNS HOPKINS UNIVERSITY	PICKHANN	GUY	N 07 27/04/89 \$5,665	A FREGLY 89-NL-242	\$5,665 01/07/89 \$5,665
TOWARD A THEORETICAL BASIS FOR KNOWLEDGE STRUCTURES IN SKILLED CognITIVE PERFORMANCE AND THEIR APPLICATION TO INTELLIGENT SYSTEMS KRIGHT STATE UNIVERSITY	KOUBEK	RICHARD	N 36 03/05/89 \$334,189	FREGLY 89-NL-245	
THE INFLUENCE OF METACOGNITIVE KNOWLEDGE AND APTITUDE ON PROBLEM SOLVING UNIV OF COLORADO	SWANSON	MICHAEL	N 24 04/05/89 \$115,145	FREGLY 89-NL-249	
THE CENTRAL EXECUTIVE COMPONENT OF WORKING MEMORY AFRC APPLIED PSYCHOLOGY UNIT	BAODELEY	ALAN	N 36 23/05/89 \$169,328	FREGLY 89-NL-256	
ATTENTION IN DYNAMIC TOUCHING UNIV OF CONNECTICUT	TURVEY	MICHAEL	N 36 24/05/89 \$375,887	FREGLY 89-NL-257	
AN ELECTROPHYSIOLOGICAL APPROACH TO THE ROLE OF ATTENTION IN LANGUAGE PROCESSING UNIV OF CALIFORNIA, SAN DIEGO	KUTAS	MARTA	N 36 07/06/89 \$404,996	FREGLY 89-NL-261	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THE COGNITIVE, PERCEPTUAL, AND NEURAL BASES OF SKILLED PERFORMANCE BOSTON UNIVERSITY	GROSSBERG STEPHEN	R 36 17/04/89 \$2,630,063	D TANGNEY 89-NL-207	
THE EFFECTS OF GRAVITY INVERSION AND TARGET FIXATION ON VISION UNIV OF MISSOURI	BASSI CARL	N 36 17/04/89 \$198,137	D TANGNEY 89-NL-208	
PSYCHOPHYSICAL ANALYSES OF PERCEPTUAL REPRESENTATIONS UNIV OF MINNESOTA	BIEDERMAN IRVING	N 36 17/04/89 \$1,151,787	D TANGNEY 89-NL-209	
INSTITUTE FOR THE STUDY OF HUMAN CAPABILITIES INDIANA UNIVERSITY RESEARCH FOUNDATION	WATSON CHARLES	R 36 17/04/89 \$1,420,111	D TANGNEY 89-NL-210	
PROCESS MODELS OF SPEECH PERCEPTION--ACCOMMODATIONS TO VARIABILITY UNIV OF COLORADO	BELL ALAN	N 36 20/04/89 \$535,749	D TANGNEY 89-NL-237	
NEURAL BASIS OF INTELLIGENT OBJECT RECOGNITION UNIV OF CALIFORNIA	BAYLIS CONRAD	N 36 20/04/89 \$471,937	D TANGNEY 89-NL-238	
DISRUPTION OF THE PRECEDENCE EFFECT BY NCISE UNIV OF MASSACHUSETTS	FREYMAN RICHARD	N 36 20/04/89 \$141,635	D TANGNEY 89-NL-239	
PARAMETRIC STUDY OF DIFFUSION-ENHANCEMENT NETWORKS FOR SPATIO-TEMPORAL GROUPING IN REAL-TIME ARTIFICIAL VISION LINCOLN LABORATORY/MIT	WAXMAN ALLEN	N 36 25/04/89 \$276,320	A TANGNEY 89-NL-240	\$21,545 01/07/89 \$297,865
SPATIAL AND TEMPORAL INTERPOLATION IN VISUAL OBJECT PERCEPTION SWARTHMORE COLLEGE	KELLMAN PHILIP	N 48 03/05/89 \$689,312	A TANGNEY 89-NL-244	

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THE ANALYSIS OF OPTIC FLOW WITHOUT LOCALLY SMOOTH VELOCITY UNIV OF ILLINOIS	GEORGE ANDERSEN	N 36 03/05/89 \$271,976	TANGNEY 89-NL-246	\$24,914 01/09/89 \$24,914
FLEXIBILITY IN COMPLEX LEARNING AND COGNITIVE PERFORMANCE STANFORD UNIVERSITY	RICHARD SNOW	N 07 03/05/89 \$24,914	A TANGNEY 89-NL-247	\$24,914 01/09/89 \$24,914
AUDITORY-ACOUSTIC BASIS OF CONSONANT PERCEPTION CENTRAL INSTITUTE FOR THE DEAF	MILLER	R 60 23/05/89 \$1,413,107	TANGNEY 89-NL-254	
PSYCHOPHYSICAL MODELS TO PREDICT DEPTH IN NATURAL SCENES BASED ON MOTION PARALLAX JET PROPULSION LABORATORY	LAWTON	N 36 23/05/89 \$623,000	TANGNEY 89-NL-255	
ROLES OF VISUAL AND AUDITORY FEEDBACK IN SPATIAL ORIENTATION UNIV OF FLORIDA	WHITE	N 36 07/06/89 \$316,423	TANGNEY 89-NL-262	
DEVELOPMENT OF NEURAL NETWORK ARCHITECTURES FOR SELF-ORGANIZING PA TTERNS RECOGNITION AND ROBOTICS BOSTON UNIVERSITY	GROSSBERG	N 28 23/06/89 \$961,663	A TANGNEY 89-NL-277	\$200,000 01/10/89 \$400,000
MULTIDISCIPLINARY STUDIES OF INTEGRATED NEURAL NETWORK SYSTEMS DAVID SARNOFF RESEARCH CENTER	PEARSON	N 28 23/06/89 \$1,105,906	A TANGNEY 89-NL-278	\$250,000 01/10/89 \$500,000
SUPER AUDITORY LOCALIZATION FOR IMPROVED HUMAN-MACHINE INTERFACES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	DURLACH	N 60 23/06/89 \$1,501,433	TANGNEY 89-NL-283	
	NATHANIEL			

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NONLINEAR REAL TIME FILTERING: THEORY AND NUMERICS IOWA STATE UNIVERSITY DEPARTMENT OF MATH	KLIEMANN WOLFGANG	N 24 06/04/89 \$106,926	BAROUCH 89-NM-482	\$29,468 15/09/89 \$29,468
MULTIVARIATE MULTISCALE ANALYSIS UNIV OF CONNECTICUT	MACYCH W.	N 06 06/C4/89 \$29,988	A BAROUCH 89-NM-483	\$29,468 89-NM-483
OPTIMUM SELECTION PROCEDURES IN MULTI-STAGE SCREENING, RELIABILITY AND TIME SERIES ANALYSIS PROBLEMS UNIV OF ILLINOIS	WIESCKE KLAUS	N 24 06/04/89 \$35,321	BAROUCH 89-NM-484	\$29,468 89-NM-484
OUTLIER RESISTANT STATISTICAL OPERATION IN SPACE-TIME PROCESSES UNIV OF VIRGINIA	KAZAMOS DEMETRIOS	N 24 06/04/89 \$115,200	BAROUCH 89-NM-485	\$29,468 89-NM-485
STOCHASTIC MODELS FOR COMPUTING WEAPON SYSTEM AVAILABILITY UNIV OF DAYTON	EBELING CHARLES	N 36 14/04/89 \$266,676	BAROUCH 89-NP-503	\$29,468 89-NP-503
HEURISTIC FOR STOCHASTIC SCHEDULING AND THE CONTROL OF QUEUING NETWORKS GEORGIA INSTITUTE OF TECH	WEISS G.	N 36 17/04/89 \$260,320	BAROUCH 89-NP-518	\$29,468 89-NP-518
TECHNIQUES FOR THE PERCEPTION OF DENSITY FUNCTIONS IN HIGHER DIMENSIONS RICE UNIVERSITY	THOMPSON JAMES	N 36 19/04/89 \$891,055	BAROUCH 89-NP-524	\$29,468 89-NP-524
1990 IEEE INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY INSTITUTE OF ELECTRL & ELECTRNC ENG INC	MILSTEIN LAURENCE	N 12 24/04/89 \$6,000	BAROUCH 89-NP-545	\$29,468 89-NP-545
SYMPOSIUM ON APPLIED PROBABILITY - 1989 INSTITUTE OF MATHEMATICAL STATISTICS	PRABHU N.	N 08 28/04/89 \$20,000	BAROUCH 89-NP-548	\$29,468 89-NP-548

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
WAVELET ANALYSIS AND APPLICATIONS YALE UNIVERSITY	COIFFRAY R.	N 36 05/05/89 \$157,710	A BAROUCH 89-NM-558	\$50,001 01/10/89 \$157,452
STABILITY AND INFERENCE FOR SOME MODELS IN RELIABILITY UNIV OF CALIFORNIA	JAHMALLADAKA S.	N 24 05/05/89 \$203,205	BAROUCH 89-NM-559	
DEVELOPMENT AND ANALYSIS OF ARMA PARAMETER ESTIMATION SCHEMES IN THE PRESENCE OF NOISE YALE UNIVERSITY	MEMORAI AYE	R 36 05/05/89 \$258,993	BAROUCH 89-NM-560	
BEARING ESTIMATION IN UNKNOWN COLORED BACKGROUND NOISE UNIV OF MINNESOTA	TEWFIK A.	N 18 05/05/89 \$92,266	BAROUCH 89-NM-561	
RESEARCH IN STATISTICAL INFERENCE TEXAS A AND M UNIVERSITY	CARRILL R.	N 33 05/05/89 \$190,592	BAROUCH 89-NM-562	
A BOOLEAN ALGEBRA METHOD TO GENERATE ALL SPANNING TREES AND ITS APPLICATION TO THE ALL-TERMINAL RELIABILITY PROBLEM MONTANA STATE UNIVERSITY	YOC	N 24 05/05/89 \$78,565	BAROUCH 89-NM-563	
ROBUST METHODS AND INFLUENCE ANALYSIS FOR CENSORED ACCELERATED LIFE TEST DATA PENNSYLVANIA STATE UNIVERSITY	AKRITAS MICHAEL	N 36 05/05/89 \$170,169	BAROUCH 89-NM-567	
SECOND WORLD CONGRESS, UPPSALA, SWEDEN INSTITUTE OF MATHEMATICAL STATISTICS	LYNNE BILLARD	N 12 12/05/89 \$38,400	BAROUCH 89-NM-576	
RELIABILITY ASSESSMENT FOR SYSTEMS SUBJECT TO MAINTENANCE & REPAIR CITY COLLEGE - CUNY	BROWN MARK	R 24 12/05/89 \$126,606	BAROUCH 89-NM-578	

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PROCESS CAPABILITY INDICES AND RELATED INFERENCES UNIV OF TEXAS	CHOU YOUN-MIN	N 33 16/05/89 \$65,191	BARUCH 89-NM-586	
DESIGN OF SYSTEM BASED COMPONENT TESTS UNIV OF PITTSBURGH	MAJUMCAR MAINAK	N 36 24/05/89 \$121,560	BARUCH 89-NM-595	
WAVELET LOCAL EXTREMA APPLIED TO IMAGE PROCESSING NEW YORK UNIVERSITY	MALLAT STEPHANE	N 36 06/06/89 \$184,568	BAROUCH 89-NM-613	\$351,000 01/10/89 \$170,000
SYSTEM RELIABILITY ANALYSIS AND INFERENCE UNIV OF CALIFORNIA	BARLOW R.	R 12 08/06/89 \$106,1203	BAROUCH 89-NM-615	
DEMONSTRATE PERFORMANCE OF WAVELETS FOR DATA COMPRESSION IN SELECTED MILITARY APPLICATIONS AWARE, INC.	RESNIKOFF HOWARD	N 04 14/06/89 \$54,414	BAROUCH 39-NM-626	\$54,414 01/09/89 \$54,414
BOOTSTRAP METHODS FOR RELATIVE RISK RATIO UNDER CENSURING, MEAN DEVIATIONS AND OTHER RELATED STATISTICS PENNSYLVANIA STATE UNIVERSITY	BABU GANTU	N 36 15/06/89 \$128,756	BARUCH 89-NM-628	
APPLICATION OF GABOR REPRESENTATION TO MILITARY PROBLEMS ATLANTIC AEROSPACE ELECTRONICS CORP.	ORR RICHARD	N 36 16/06/89 \$1,495,293	BAROUCH 89-NM-634	
RESPONSE SURFACE EXPERIMENTAL DESIGN FOR IMPROVED QUALITY AND PRODUCTIVITY VIRGINIA POLYTECHNIC INST & STATE UNIV	MYERS R.	N 36 27/06/89 \$226,046	BARUCH 89-NM-643	
FEATURE ORIENTED SIGNAL PROCESSING USING NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS AND WAVELET ANALYSIS COGNITECH INC	CSHER STANLEY	N 36 29/06/89 \$160,000	BARUCH 89-NM-648	\$40,000 01/11/89 \$160,000

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
OPTIMAL DECENTRALIZED ROUTING CONTROL FOR QUEUES UNIV OF MICHIGAN	TENEKETZIS D.	N 24 06/04/89 \$461,257	CROWLEY 89-NM-485	
MATHEMATICAL TECHNIQUES FOR SYSTEM REALIZATION AND IDENTIFICATION UNIV OF FLORIDA	KALMAN R.E.	R 36 06/04/89 \$224,826	CROWLEY 89-NP-487	
ON-LINE MONITORING OF MACHINING PARAMETERS AND REALTIME WORKPLACE INTERROGATION FOR ADAPTIVE CONTROL AND PROCESS OPTIMIZATION PENNSTATE UNIVERSITY	RUUD C	N 24 17/04/89 \$427,587	CROWLEY 89-NP-508	
AN EMBEDDING PROBLEM WITH APPLICATION TO NEURAL NETWORKS HAMPTON UNIVERSITY	PRUEITT PAUL	N 24 17/04/89 \$179,826	CROWLEY 89-NM-521	
CYANAMIC RESPONSE AND STABILITY OF FLEXIBLE STRUCTURES IN THE PRESENCE OF EXTERNAL STIMULI TEMPLE UNIVERSITY SCHOOL OF MEDICINE	BISWAS SAROJ	N 36 17/04/89 \$291,977	CROWLEY 89-NP-523	
CONTROL OF NONLINEAR DISTRIBUTED PARAMETER SYSTEMS: FEEDBACK DESIGN IN AND COMPUTATION WASHINGTON UNIVERSITY	BYRNES CHRISTOPHER	N 36 19/04/89 \$1,476,433	CROWLEY 89-NP-525	
DESIGN OPTIMIZATION OF SYSTEMS GOVERNED BY PARTIAL DIFFERENTIAL EQUATIONS EODYNAMICS RESEARCH ASSOCIATION INC	ROACH PATRICK	N 24 19/04/89 \$329,583	CROWLEY 89-NM-526	
CONTROL OF COMPLEX MULTIBODY SPACECRAFT UNIV OF MARYLAND	KRISHNAPRASAD P.	N 36 19/04/89 \$1,336,976	CROWLEY 89-NM-529	
AUTOMATIC FAULT DETECTING CONTROL SYSTEMS FOR FLEXIBLE SPACE STRUCTURES TEMPLE UNIVERSITY SCHOOL OF MEDICINE	SENDAULA H.	N 24 19/04/89 \$248,179	CROWLEY 89-NP-530	

REPORT DATE 07/11/89

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 5

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NONSMOOTH OPTIMIZATION ALGORITHMS, SYSTEM THEORY AND SOFTWARE TOOLS UNIV OF CALIFORNIA	ELIJAH POLAK	N 36 24/04/89 \$518,296	A CROWLEY 89-NM-543	\$139,372 01/10/89 \$428,571
PERFORMANCE ROBUSTNESS OF REDUCED-COMPLEXITY UNIV OF CINCINNATI	LAWRENCE CALE	N 36 28/04/89 \$197,291	CROWLEY 89-NM-550	
ROBUST CONTROLLER DESIGN FOR SYSTEM WITH BOUNDED UNCERTAINTY: A SYNAPTIC GAMES APPROACH UNIV OF ILLINOIS	BARAS T.	N 36 28/04/89 \$235,890	CROWLEY 89-NM-553	
OPERATIONAL METHODS IN CONTROL THEORY MICHIGAN STATE UNIVERSITY	MACCLUER CHARLES	N 12 28/04/89 \$53,062	CROWLEY 89-NM-554	
ANALYSIS, ESTIMATION, AND CONTROL FOR PERTURBED ANC SINGULAR SYSTEMS AND FOR SYSTEMS SUBJECT TO DISCRETE EVENTS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	WILLSKY ALAN	R 24 05/05/89 \$195,437	A CROWLEY 89-NM-565	\$87,415 01/10/89 \$179,869
ANALYTICAL FOUNDATIONS OF GAIN SCHEDULING JOHNS HOPKINS UNIVERSITY	RUGH WILSON	N 36 16/05/89 \$307,389	CROWLEY 89-NM-587	
LARGE-SCALE DISCRETE-EVENT SYSTEMS: THEORY ALGORITHMS, AND CASE STUDIES UNIV OF MICHIGAN	LAFORTUNE STEPHANE	N 36 17/05/89 \$269,651	CROWLEY 89-NM-590	
PROBLEMS IN DETERMINISTIC AND STOCHASTIC OPTIMAL CONTROL: VISCOUSITY METHODS AND SUBOPTIMAL EQUATIONS LOYOLA UNIVERSITY	BARRON EMMANUEL	R 24 15/06/89 \$87,172	CROWLEY 89-NM-527	
INVERSE AND OPTIMIZATION PROBLEMS FOR LOW FREQUENCY DATA RENSSELAER POLYTECHNIC INSTITUTE	JAYCE MC LAUGHLIN	N 12 15/C6/89 \$44,900	CROWLEY 89-NM-629	

REPORT DATE 07/17/89

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 6

TITLE	TYPE/MONTHS	STATUS	INITIATE
TITLE (CONT.)	RECEIVED	PROGRAM MANAGER	START DATE
INSTITUTION	AMOUNT	PROPOSAL #	TOY AMT
OPTIMAL DESIGN AND CONTROL OF DISTRIBUTED PARAMETER SYSTEMS	N 36 15/06/89 \$321,352	CROWLEY	83-NM-630
UNIV OF MARYLAND BALTIMORE COUNTY	THOMAS		
ASYMPTOTICALLY EFFICIENT ADAPTIVE CONTROL OF STOCHASTIC SYSTEMS	N 24 20/06/89 \$110,716	CROWLEY	89-NM-636
UNIV OF MICHIGAN	TENEKETZIS	DEMOSTHENIS	
A THEORY OF CONTROL FOR FLEXIBLE SPACE STRUCTURES	N 24 27/06/89 \$103,730	CROWLEY	89-NM-645
TEXAS TECH UNIVERSITY	EMRE	EROL	
ASYMPTOTICALLY EFFICIENT ADAPTIVE CONTROL OF STOCHASTIC SYSTEMS	N 24 27/06/89 \$103,684	CROWLEY	89-NM-646
CORNELL UNIVERSITY	ANANTHARAM	VENKAT	
DEVELOPMENT OF AN INTERACTIVE DECISION SUPPORT SYSTEM FOR DESIGN OF INSPECTION/TEST STRATEGIES	N 12 12/04/89 \$105,746	GLASSMAN	89-NM-647
MISSISSIPPI STATE UNIVERSITY	SMYER	WILLIAM	
ALGORITHMS AND SOFTWARE FOR SEQUENTIAL AND PARALLEL OPTIMIZATION	R 36 13/04/89 \$434,868	GLASSMAN	89-NM-496
UNIV OF COLORADO	SCHNABEL	RICHARD	
PARALLEL ALGORITHMS FOR OPTIMIZATION PROBLEMS	N 24 13/04/89 \$170,492	GLASSMAN	89-NM-497
JOHNS HOPKINS UNIVERSITY	MEYER	GERARD	
NEW LINEAR PROGRAMMING-BASED SOLUTION STRATEGIES FOR THE QUADRATIC ASSIGNMENT PROBLEM	N 24 13/04/89 \$115,706	GLASSMAN	89-NM-500
CLEMSON UNIVERSITY	ADAMS	WARREN	
RECURSIVELY CONSTRUCTED GRAPH CLASSES: DECOMPOSITION AND LINEAR TIME ALGORITHM GENERATION	N 24 13/04/89 \$247,059	GLASSMAN	89-NM-501
GEORGIA INSTITUTE OF TECH	PARKER	R.	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
DEVELOPMENT OF FEATURE-BASED CONSTRAINT PROGRAMMING FOR DESIGN TO PRODUCTION HAMPTON UNIVERSITY	RAM	N 36 14/04/89 \$322,150	GLASSMAN 89-NM-505		
PARALLEL ALGORITHMS FOR PERFECT GRAPHS OLD DOMINION UNIVERSITY	CLARIU STEPHEN	N 24 14/04/89 \$70,459	GLASSMAN 89-NM-507		
APPLIED DISCRETE MATHEMATICS: RESEARCH AND APPLICATIONS ENVIRONMENTS RENSSLAER POLYTECHNIC INSTITUTE	ECKER JOSEPH	N 36 17/04/89 \$1,945,241	GLASSMAN 89-NM-517		
GRAPH-THEORETIC APPROACH TO FIXED-JOG RIVER CUTTING FOR VLSI DESIGN UNIV OF OKLAHOMA	TUAN TAI-CHING	N 36 17/04/89 \$198,232	GLASSMAN 89-NM-519		
A DECOMPOSITION-BASED INVESTIGATION OF A LARGE CLASS OF PERFECT GRAPHS OLD DOMINION UNIVERSITY	CLARIU STEPHEN	N 24 17/04/89 \$65,387	GLASSMAN 89-NM-522		
PARALLEL NETWORK OPTIMIZATION ALGORITHMS WITH APPLICATION TO ROUTING AND SCHEDULING SOUTHERN METHODOIST UNIVERSITY	KENNINGTON J. R.	N 24 19/04/89 \$201,963	GLASSMAN 89-NM-527		
RESEARCH IN MIXED-INTEGER PROGRAMMING GEORGIA TECH RESEARCH CORPORATION	NEMHAUSER GEORGE	N 04 25/04/89 \$50,000	GLASSMAN 89-NM-546	\$50,000 01/06/89 \$50,000	
MERIT FUNCTIONS AND ACTIVE SET STRATEGIES FOR NONLINEAR PROGRAMMING TULANE UNIVERSITY	LAW VICTOR	N 36 28/04/89 \$241,938	GLASSMAN 89-NM-552		
ANALYSIS OF LINEAR PROGRAMMING RELAXATIONS OF COMBINATORIAL OPTIMIZATION PROBLEM MASSACHUSETTS INSTITUTE OF TECHNOLOGY	BERTSIMAS CIMITRIS	N 36 05/05/89 \$348,309	GLASSMAN 89-NM-564		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THEN ANALYSIS OF ACTIVITY NETWORKS UNDER GENERALIZED PRECEDENCE RELATIONS NORTH CAROLINA STATE UNIVERSITY	ELMAGHRASY SALAH	N 24 11/05/89 \$182,368	GLASSMAN D 89-NM-575	
LARGE-SCALE NONLINEAR OPTIMIZATION PROBLEMS: PARALLEL PROCESSING, FAST COMPUTATION ALGORITHMS, AND GLOBAL OPTIMALITY UNIV OF CALIFORNIA CHANG T.		N 36 12/05/89 \$1,542,918	GLASSMAN D 89-NM-592	
CODING THEORY AND COMPUTATIONAL COMPLEXITY UNIV OF TEXAS	HUYNH DUNG	N 36 16/05/89 \$50,000	GLASSMAN D 89-NM-584	
A FRAMEWORK FOR SOLVING COUNTING AND ENUMERATION PROBLEMS UNIV OF NORTH CAROLINA	FISHMAN GEORGE	N 36 24/05/89 \$467,037	GLASSMAN A 89-NM-593	
DISCRETE METHODS AND THEIR APPLICATIONS RUTGERS - THE STATE UNIVERSITY	HAMMER PETER	N 36 06/06/89 \$751,851	GLASSMAN A 89-NM-614	\$150,000 01/10/89 \$497,000
PARALLEL ALGORITHMS FOR GLOBAL OPTIMIZATION AND RELATED PROBLEMS PENNSYLVANIA STATE UNIVERSITY	PARDALOS P.	N 24 10/06/89 \$135,390	GLASSMAN A 89-NM-624	
MATROID MATCHING POLYHEDRA GEORGIA TECH RESEARCH CORPORATION	LLEWELLYN POORE	N 24 20/06/89 \$351,628	GLASSMAN A 89-NM-637	
CONTINUATION AND BIFURCATIONS INVESTIGATIONS IN CONSTRAINED OPTIMIZATION COLORADO STATE UNIVERSITY	AUBREY	R 12 21/06/89 \$38,000	GLASSMAN A 89-NM-640	
SHAPE OPTIMIZATION IN AEROTHERMODYNAMICS VIA ENTROPY MINIMIZATION PENNSYLVANIA STATE UNIVERSITY	CULIKRAVICH GEORGE	N 36 27/06/89 \$250,000	GLASSMAN A 89-NM-644	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SOLUTION PROCEDURES FOR LARGE-SCALE COMBINATORIAL OPTIMIZATION PROBLEMS GEORGE MASON UNIVERSITY	KARLA HOFFMAN	N 36 27/06/89 \$748,410	O GLASSMAN	
ADMINISTRATION OF TRAVEL GRANT PROGRAM FOR THE 1990 INTERNATIONAL CONGRESS OF MATHEMATICIANS AMERICAN MATHEMATICAL SOCIETY	JAMES MAXWELL	N 18 16/05/89 \$51,000	O HOLLAND	
APPLICATIONS OF THE FBI-TRANSFORM AND WAVELETS UNIV OF SOUTH CAROLINA	RONALD DEVORE	N 36 03/04/89 \$596,601	A NACHMAN	\$125,000 01/09/89
COMPUTATIONAL AND ANALYTICAL METHODS IN NONLINEAR FLUID DYNAMICS LEHIGH UNIVERSITY	JAMES WALKER	N 36 03/04/89 \$760,291	A NACHMAN	\$136,186 01/09/89
CONTROL AND STABILIZATION OF DISTRIBUTED PARAMETER SYSTEMS: THEORETICAL AND COMPUTATIONAL ASPECTS UNIV OF VIRGINIA	IRENA LASIECKA	N 36 04/04/89 \$750,000	A NACHMAN	\$408,558 01/09/89
CENTER FOR ANALYSIS OF HETEROGENEOUS & NONLINEAR MEDIA NEW YORK UNIVERSITY	KOHN	N 36 12/04/89 \$1,627,920	A NACHMAN	\$146,205 01/09/89
NON-LINEAR WAVE PROPAGATION UNIV OF COLORADO	ABLOWITZ MARK	N 24 12/04/89 \$151,143	A NACHMAN	\$73,969 01/11/89
PERTURBATION PROBLEMS IN FLUID DYNAMICS NEW YORK UNIVERSITY	TING LU	N 36 13/04/89 \$145,609	A NACHMAN	\$48,218 15/10/89
PROBLEMS IN NONLINEAR CONTINUUM DYNAMICS UNIV OF WISCONSIN	SLENKOW MARSHALL	R 12 13/04/89 \$49,410	A NACHMAN	\$49,410 15/10/89

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
A STUDY OF INVERSE SYSTEMS ILLINOIS INSTITUTE OF TECHNOLOGY	MARVASTI FAROKH	N 24 14/04/89 \$68,025	NACHMAN 89-NM-502	
ON THE EXISTENCE OF SOLUTION TO NONLINEAR DISSIPATIVE WAVE EQUATIONS HAMPTON UNIVERSITY	PIAMMEE A.	N 24 14/04/89 \$116,548	NACHMAN 89-NM-506	
NONLINEAR RAYLEIGH-TAYLOR INSTABILITIES UNIV CF NEBRASKA	DOUGLASS ROD	N 36 17/04/89 \$421,854	NACHMAN 89-NM-510	
AN INTEGRATED ENVIRONMENT FOR THE DEVELOPMENT OF SCIENTIFIC AND ENGINEERING APPLICATIONS UNIV CF ILLINICIS	KUCK DAVID	N 36 17/04/89 \$2,231,711	NACHMAN 89-NM-513	
AERODYNAMICS AND COMBUSTION ANALYTICAL AND NUMERICAL STUDIES RENSSLAER POLYTECHNIC INSTITUTE	COLE JULIAN	N 36 19/04/89 \$1,263,237	NACHMAN 89-NM-531	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE AMERICAN STANARDS TESTING BUREAU, INC.	BOLOKAIN ANDREAS PETER	N 06 01/05/89 \$50,000	NACHMAN 89-NM-555	
LONG-TIME BEHAVIOR OF MODELS IN ENGINEERING AND BIOLOGICAL SCIENCES UNIV OF MINNESOTA	WEINBERGER HANS	N 36 05/05/89 \$455,502	NACHMAN 89-NM-566	
DEVELOP , APPLY AND EVALUATE WAVELET TECHNOLOGY AWARE, INC.	LAWTON WAYNE	N 36 08/05/89 \$1,192,000	NACHMAN 89-NM-569	\$143,802 01/09/89 \$1,761,000
THE QUANTUM BEHAVIOR OF COUPLED NONLINEAR OSCILLATORS UNIV OF ARIZONA	ALWYN SCOTT J	N 04 10/05/89 \$15,000	NACHMAN 89-NM-573	\$15,000 01/06/89 \$15,000

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SUBMITAL OF MONTHLY EXPENDITURE PLAN-COPLER RADAR INVESTIGATION RAYTHEON CO	BERNFIELD MARVIN	N 24 10/CS/89 \$465,809	A NACHMAN 89-NM-574	\$58,725 01/08/89 \$469,809
DEVELOPMENT OF COMBINED ASYMPTOTIC AND NUMERICAL PROCEDURES TO TREAT STABILITY OF HYPERSONIC BOUNDARY LAYERS ROCKWELL INTERNATIONAL	MALMUTH N.	N 36 12/05/89 \$149,950	A NACHMAN 89-NM-577	
ANALYSIS AND COMPUTATION FOR VORTEX DYNAMICS AND RAREFIED GASES UNIV OF CALIFORNIA	CAFLISCH RUSSEL	N 12 12/05/89 \$60,000	A NACHMAN 89-NM-579	\$60,000 01/10/89 \$60,000
1990 AMS-SIAM SUMMER SEMINAR ON "VORTEX DYNAMICS AND VORTEX METHODS" AMERICAN MATHEMATICAL SOCIETY	MAXWELL JAMES	N 18 12/05/89 \$31,210	A NACHMAN 89-NM-580	
LARGE SCALE STRUCTURE AND DYNAMICS OF CHAOTIC AND TURBULENT SYSTEMS CALIFORNIA INSTITUTE OF TECHNOLOGY	CROSS MICHAEL	N 36 16/05/89 \$358,986	A NACHMAN 89-NM-588	
PROBABILISTIC METHODS FOR IMAGE GENERATION AND ENCODING GEORGIA TECH RESEARCH CORPORATION	BERGER MAUREEN	N 36 16/05/89 \$259,712	A NACHMAN 89-NM-589	
TOMOGRAPHIC MATHEMATICAL IDEAS APPLIED TO RADAR DETECTION UNIV OF CALIFORNIA	GRUNBAUM F ALBERTO	N 24 18/05/89 \$45,000	A NACHMAN 89-NM-591	\$45,000 01/09/89 \$361,000
APPROXIMATE INERTIAL MANIFOLDS FOR A BENARD CONVECTION SYSTEM: ANALYSIS AND COMPUTATION CORNELL UNIVERSITY	STEEEN P.	N 24 24/05/89 \$137,262	A NACHMAN 89-NM-594	
GEOOMETRY OF ENERGY MINIMIZING SURFACES FUTGERS - THE STATE UNIVERSITY	TAYLOR JEAN	R 12 31/05/89 \$50,546	A NACHMAN 89-NM-597	\$50,546 01/09/89 \$50,546

TITLE	TYPE/MONTHS	STATUS	INITIATE
TITLE (CONT.)	RECEIVED AMOUNT	PROGRAM MANAGER	START DATE
INSTITUTION	PROPOSAL #		TOT AMT
MODELING OF PHASE TRANSFORMATION KINETICS IN INHOMOGENEUS SYSTEMS	N 36 05/06/89 \$202,750	NACHMAN 89-NM-604	\$17,712 01/10/89 \$101,861
WEINBERGER MICHAEL			
COMPUTATIONAL METHODS FOR NONDESTRUCTIVE INSPECTION	N 12 05/06/89 \$17,712	NACHMAN 89-NM-605	\$48,406 01/10/89 \$48,406
RUTGERS - THE STATE UNIVERSITY VOGELIUS			
MATHEMATICAL PROBLEMS CONCERNING RHYTHMIC PROCESSES	N 12 05/06/89 \$59,886	NACHMAN 89-NM-609	\$48,406 01/10/89 \$48,406
BOSTON UNIVERSITY KOPELL			
MECHANICS OF NON-ASSOCIATED INELASTIC MATERIALS	N 24 08/06/89 \$139,031	NACHMAN 89-NM-616	\$126,420 30/09/89 \$281,739
STEVENS INSTITUTE OF TECHNOLOGY NICHOLSON			
ADAPTIVE NEURAL NETWORK MODELS FOR INTELLIGENT UNIV OF MARYLAND CHEN	N 36 08/06/89 \$895,849	NACHMAN 89-NM-617	\$126,420 30/09/89 \$281,739
ANALYSIS AND DESIGN OF NEURAL NETWORKS	N 28 08/06/89 \$674,392	NACHMAN 89-NM-618	\$166,000 30/09/89 \$323,000
UNIVERSITY OF ILLINOIS CYBENKO			
STABILITY BY HYDRODYNAMICAL MODELING	N 24 10/06/89 \$81,931	NACHMAN 89-NM-623	D
INDIANA INSTITUTE OF TECHNOLOGY SZADKOWSKI			
PHYSICAL MODELING AND SEGMENTATION OF SPECKLED SAR AND ULTRASOUND IMAGERY	N 24 10/06/89 \$177,262	NACHMAN 89-NM-625	\$125,000 01/10/89 \$125,000
DREXEL UNIVERSITY COHEN			
THE STUDY OF NONLINEAR TRANSIENT ELECTRICAL DISCHARGE THEORY	N 36 16/06/89 \$300,000	NACHMAN 89-NM-633	A
LOS ALAMOS SCIENTIFIC LAB (DOE) KADISH			

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
THEORY AND APPLICATIONS OF NEURAL NETWORKS HARVARD UNIVERSITY	BROCKETT ROGER	N 24 16/06/89 \$925,000	A NACHMAN 89-NM-635	\$205,195 30/09/89	\$425,174
STATISTICAL BENCHMARKS FOR NEURAL NETWORK CLASSIFICATION PERFORMANCE CORNELL UNIVERSITY	FINE TERENCE	N 24 21/06/89 \$185,360	A NACHMAN 89-NM-638	\$104,312 30/09/89	\$225,024
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE: CALCULATION OF THE PROBABILITY OF UNDETECTED ERROR FOR CERTAIN ERROR DETECTION CODES QUALCOMM, INC.	VITERBI ANDREW	R 06 21/06/89 \$157,760	A NACHMAN 89-NM-639		
STABILITY ANALYSIS OF FAULT-TOLERANT REAL-TIME MULTIPROCESSOR SYSTEMS UNIV OF NEBRASKA	DEOGUN JITENDER	N 36 06/04/89 \$239,877	NELSON 89-NM-480		
CONTINUATION AND MULTI-GRID METHODS FOR BIFURCATION PROBLEMS ARIZONA STATE UNIVERSITY	MITTELMANN HANS	N 36 06/04/89 \$207,192	NELSON 89-NM-488		
AN INTEGRATED TOOL FOR PERFORMANCE MODELING OF MISSION CRITICAL -PARALLEL SOFTWARE CLARKSON UNIVERSITY	AMMAR	N 55 14/04/89 \$960	NELSON 89-NM-504		
A MULTI-LEVEL PARALLEL SCIENTIFIC COMPUTATIONAL METHODOLOGY FOR DISTRIBUTED PARAMETER SYSTEMS TEXAS ENGINEERING EXPERIMENT CENTER	HUANG CARNG	N 24 17/04/89 \$927,988	NELSON 89-NM-511	\$250,000 01/07/89	\$750,000
PARALLEL PROCESSING AND SCIENTIFIC APPLICATIONS UNIV OF COLORADO	MCBRYAN OLIVER	N 36 24/04/89 \$1,060,349	A NELSON 89-NM-534		
INVESTIGATIONS ON IMPROVED ITERATIVE METHODS FOR SOLVING SPARSE SYSTEMS OF LINEAR EQUATIONS KENT STATE UNIVERSITY	VARGA RICHARD	R 36 24/04/89 \$323,975	NELSON 89-NM-536		

REPORT DATE 07/17/89

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 14

TITLE TITLE (CON.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PRECONDITIONING TECHNIQUES FOR ADVANCED SCIENTIFIC COMPUTING BROOKHAVEN NATIONAL LABORATORY	PASCIAK JOSEPH	N 36 24/04/89 \$559,554	NELSON 89-NM-540	
EFFICIENT NUMERICAL METHODS FOR EVOLUTION PARTIAL DIFFERENTIAL EQUATIONS UNIV OF TENNESSEE	KARAKASHIAN CHANNELS	R 24 24/04/89 \$69,028	NELSON 89-NM-544	
NATURAL LANGUAGE KNOWLEDGE REPRESENTATION ROME AIR DEVELOPMENT CENTER		N 09 10/05/89 \$8,709	A NELSON 89-NM-572	\$8,709 01/06/89 \$8,709
APPROXIMATE INERTIAL MANIFOLDS AND NONLINEAR GALERKIN METHODS UNIV OF INDIANA	FOLAS CIPRIAN	N 36 12/05/89 \$833,718	NELSON 89-NM-581	
MULTI-GRID AND MULTILEVEL COMPUTATIONS WEIZMANN INSTITUTE OF SCIENCE	BRANCI ACHIL	R 36 31/05/89 \$67C,307	NELSON 89-NM-596	
WORKSHOP ON FUTURE DIRECTION IN CONTROL THEORY NATIONAL ACADEMY OF SCIENCES	COX	N 12 31/05/89 \$87,500	A NELSON 89-NM-598	\$87,500 01/06/89 \$87,500
NATURAL LANGUAGE/KNOWLEDGE REPRESENTATIONS ROME AIR DEVELOPMENT CENTER	BRIMMAR RICHARD	N 09 01/06/89 \$8,709	A NELSON 89-NM-600	\$8,709 01/06/89 \$8,709
PARALLEL COMPUTATION CALIFORNIA INSTITUTE OF TECHNOLOGY	CHANCY K MANI	N 12 02/06/89 \$170,000	A NELSON 89-NM-601	\$161,000 01/06/89 \$161,000
INTERACTIVE SCIENTIFIC VISUALIZATION UNIV OF CALIFORNIA	WILHELMUS JANE	N 24 05/06/89 \$300,343	NELSON 89-NM-602	

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
INTERACTIVE MODELING AND MANIPULATION OF COMPLEX THREE-DIMENSIONAL WORLDS USING PHYSICAL SIMULATION UNIV OF CALIFORNIA	JANE WILHELM	N 24 05/06/89 \$215,401	0 NELSON 89-NM-503		
COMPUTATIONAL METHODS FOR FLOW PROBLEMS PARALLEL ALGORITHMS, FLOW CONTROL AND LEVEL APPROXIMATIONS VIRGINIA POLYTECHNIC INST & STATE UNIV	MAX GUNZBURGER	N 36 15/06/89 \$395,697	NELSON 89-NM-632		
PARALLEL DOMAIN DECOMPOSITION, PRECONDITIONERS, AND MULTIGRID METHODS FOR SOLVING 3-D ELLIPTIC PDE PROBLEMS UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	KAI HWANG	N 36 06/04/89 \$451,060	WAKSMAN 89-NM-491		
AN INTELLIGENT MATHEMATICAL MODELLING SYSTEM - MATHCODEL COMPUTER COMMAND & CONTROL COMPANY	NOAH PRYME	N 18 06/04/89 \$212,000	WAKSMAN 89-NM-489		
RESEARCH IN FAULT TOLERANT PARALLEL AND DISTRIBUTED MULTIPROCESSOR NETWORKS UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	C. RAGHAVENDRA	N 36 17/04/89 \$415,614	WAKSMAN 89-NM-509		
GENETIC ALGORITHMS FOR VISUAL RECONSTRUCTION PROBLEMS IN COMPUTER VISION UNIV OF FLORIDA	VENKAT VENKAT	N 36 17/04/89 \$227,513	WAKSMAN 89-NM-514		
SHAPE FROM TEXTURE--A BAYESIAN APPROACH DREXEL UNIVERSITY	FERNANDO COHEN	N 24 17/04/89 \$173,128	WAKSMAN 89-NM-515		
AN EXPERT SYSTEM APPROACH TO MOTION TRACKING BASED ON RANGE PROGRAMS TEXAS ENGINEERING EXPERIMENT CENTER	KETHARNAVAZ	N 12 17/04/89 \$52,557	WAKSMAN 89-NM-516		
EFFECTS OF INFORMATION FORMATS ON DATA DETECTION, RETRIEVAL AND ENTRY OPERATIONS UNIV OF MARYLAND BALTIMORE COUNTY	EMURIAN HENRY	N 36 17/04/89 \$80,884	WAKSMAN 89-NM-520		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
APPLICATIONS OF LOGIC IN COMPUTATION UNIV OF PENNSYLVANIA	BUNEPAN PETER	N 36 19/C4/89 \$807,387	WAKSMAN 89-NM-528		
SUFFICIENT CONDITION FOR A COMMUNICATION DEADLOCK AND A DISTRIBUTED DEADLOCK DETECTION PROTOCOL WICHITA STATE UNIVERSITY	ZBIGNIEW WOJCIK	N 12 24/04/89 \$63,193	WAKSMAN 89-NM-533		
ITERATION THEORIES, MATRICIAL THEORIES AND PROGRAM CORRECTNESS STEVENS INSTITUTE OF TECHNOLOGY	BLOOM STEVEN	N 36 24/04/89 \$78,008	WAKSMAN 89-NM-537		
A DEBUGGER FOR CONCURRENT PROGRAMS UNIV OF CALIFORNIA	OLSSON RONALD	N 36 24/04/89 \$321,541	WAKSMAN 89-NM-539		
A SIMPLIFIED ARITHMETIC FOURIER TRANSFORM ALGORITHM UNIV OF SOUTHERN CALIFORNIA	REED IRVING	N 12 24/04/89 \$112,467	WAKSMAN 89-NM-539		
COMMUNICATION COSTS OF SYNCHRONIZATION IN PRACTICAL NETWORK CONFIGURATIONS UNIV OF TEXAS AUSTIN	ROBBINS	N 36 24/04/89 \$203,482	WAKSMAN 89-NM-541		
GRASSMANN ALGEBRA APPROACH TO SYMBOLIC ANALYSIS FOR DYNAMIC SYSTEMS BOSTON UNIVERSITY	CHIN-FAN	N 24 24/04/89 \$226,589	WAKSMAN 89-NM-542		
DESIGN & DIAGNOSIS PROBLEM SOLVING WITH MULTIFUNCTIONAL TECHNICAL KNOWLEDGE BASES OHIO STATE UNIVERSITY	CHANCASEKARAN B	N 24 28/04/89 \$570,000	WAKSMAN 89-NM-547	\$200,000 15/08/89 \$570,406	
AN INTERACTIVE SOFTWARE PACKAGE FOR SIMULATING CONTINUOUS-TIME SYSTEMS IN A MULTI-PROCESSOR ENVIRONMENT UNIV OF NEBRASKA	VAKILZADIAN HAMID	N 18 28/04/89 \$106,298	WAKSMAN 89-NM-549		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
A VERY LARGE ANNOTATED DATA BASE OF WRITTEN AND SPOKEN AMERICAN ENGLISH UNIV OF PENNSYLVANIA	MARCLS MITCH	N 36 02/05/89 \$694,438	WAKSMAN A 89-NM-556	\$195,000 01/09/89 \$694,438
IDENTIFICATION OF PERFORMANCE FAILURES BASED ON DIAGNOSTIC REASONING INNOVATIVE RESEARCH INC.	PAZIRANDEH MOHSEN	N 04 04/05/89 \$50,540	WAKSMAN 89-NM-557	
QUALITY MEASURES FOR THE MAPPING PROBLEM UNIV OF CALIFORNIA, SAN DIEGO	BERMAN FRANCINE	N 36 05/05/89 \$312,506	WAKSMAN 89-NM-568	
MOTION ANALYSIS AND ITS APPLICATIONS UNIV OF SOUTHERN CALIFORNIA	NEVATIA R	N 36 08/05/89 \$248,469	WAKSMAN A 89-NM-570	01/08/89 \$17,972
AN ADAPTIVE PLANNER FOR REAL-TIME UNCERTAIN ENVIRONMENTS UNIV OF MASSACHUSETTS	COHEN PAUL	N 36 15/05/89 \$111,354	WAKSMAN A 89-NM-583	\$111,354 30/09/89 \$750,000
ADAPTIVE ERROR CORRECTION USING NEURAL NETS UNIVERSITY OF SOUTHERN CALIFORNIA	REED	N 24 24/05/89 \$139,144	WAKSMAN 89-NM-592	
ADAPTIVE DYNAMICS FOR NEURAL COMPUTATION JET PROPULSION LABORATORY	PINECA FERNANDO	N 36 05/06/89 \$210,500	WAKSMAN 89-NM-606	
TOWARDS CONTROL OF TIME-VARYING SYSTEMS: QUANTITATIVE AND QUANTITATIVE MODELING NORTHEASTERN UNIVERSITY	KOKAR MIECZYSLAW	N 24 05/06/89 \$186,188	WAKSMAN 89-NM-607	
ARCHITECTURE OF A REAL-TIME MULTITASKING RISC GEORGE MASON UNIVERSITY	TABAQ DANIEL	N 24 05/06/89 \$313,751	WAKSMAN 89-NM-608	

REPCRT DATE 07/17/89

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF MATHEMATICAL INFORMATION SCIENCES

PAGE 18

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT		
					RECEIVED AMOUNT		
PROBABILISTIC ANALYSIS OF NEURAL NETWORKS UNIV OF ARIZONA	FARIS	WILLIAM	R 12 05/06/89 \$63,348	WAKSMAN 89-NM-610			
PARTIAL SUPPORT FOR AN INTERNATIONAL SYMPCSIUM ON ARTIFICIAL INTELLIGENCE AND MATHEMATICS FLORICA ATLANTIC UNIVERSITY	HOFFMAN	FREDERICK	N 01 05/06/89 \$6,680	WAKSMAN 89-NM-611			
A BIODIRECTIONAL APPROACH TO THE MAPPING OF ALGORITHMS UNIV OF PITTSBURGH	H. CHUANG	HENRY	N 36 05/06/89 \$470,327	WAKSMAN 89-NM-612			
INTELLIGENT, REAL TIME-PROBLEM SOLVING UNIV OF MASSACHUSETTS	COHEN	PAUL	N 03 08/06/89 \$30,000	WAKSMAN 89-NM-619	\$30,000 15/09/89 \$30,000		
INTELLIGENT REAL TIME PROBLEM SOLVING: CONCEPTUAL ANALYSIS OF ISSUES, IDEAS AND RESULTS STANFORD UNIVERSITY	SHCHAM	YAV	N 03 08/06/89 \$40,000	WAKSMAN 89-NM-620	\$40,000 15/09/89 \$40,000		
INTELLIGENT REAL TIME PROBLEM SOLVING MATHEMATICAL SCIENCES NORTHWEST INC	LARK		N 03 09/06/89 \$25,000	WAKSMAN 89-NM-621	\$25,000 30/09/89 \$25,000		
INTELLIGENT REAL TIME PROBLEM-SOLVING, ISSUES, CONCEPTS, AND RESEARCH METHODOLOGY TELOS RESEARCH	ROSENSHEIN	STANLEY	N 03 09/06/89 \$55,000	WAKSMAN 89-NM-622	\$55,000 15/09/89 \$55,000		
INTEGRATION OF STEREO VISION AND OPTICAL FLOW USING ENERGY MINIMIZATION APPROACH WORCESTER POLYTECHNIC INSTITUTE	NASSER		N 12 15/06/89 \$57,600	WAKSMAN 89-NM-631	\$62,000 01/10/89 \$129,000		
AGGREGATION NETWORKS FOR UNCERTAINTY MANAGEMENT UNIV OF MISSOURI	KRISHNAPRAM	RAJGU	N 24 23/06/89 \$129,000	WAKSMAN 89-NM-641			

REPORT DATE 07/17/83

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 19

TITLE (CONT.)
INSTITUTION
EXECUTIVE COMPUTER PROGRAMMING
STANFORD UNIVERSITY

TITLE

INVESTIGATOR
MAKNA

INVESTIGATOR
ZOHAR

INITIATE	TYPE/MONTHS	STATUS	INITIATE
TITLE	RECEIVED	PROGRAM MANAGER	START DATE
INSTITUTION	AMOUNT	PROPOSAL #	TOT AMT
EXECUTIVE COMPUTER PROGRAMMING	N 30	A	\$107,899 01/17/89
STANFORD UNIVERSITY	23/06/89 \$292,500	WAKSMAN 89-NM-642	\$346,399

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCES

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM PROPOSAL #	INITIATE START DATE TOT AMT
EXPERIMENTAL RESEARCH ON HIGH GRADIENT ACCELERATION BY WAKEFIELDS IN AN ELLIPTIC CAVITY AT THE UTA WAKE FIELD TEST FACILITY TEXAS A AND M RESEARCH FOUNDATION	K	R 05/04/89 \$110,000	A BARKER 89-NP-163	\$110,000 01/07/89 \$110,000
BACKWARD WAVE OSCILLATOR INVESTIGATIONS IN THE RAMAN REGIME UNIV OF NEW MEXICO	SCAHMILOGLU	N 21/04/89 \$99,907	A BARKER 89-NP-177	\$99,907 01/08/89 \$99,907
ANOMALOUS PLASMA ABSORPTION OF ELECTROMAGNETIC RADIATION NAVAL RESEARCH LABORATORY	ROWLAND	N 24/04/89 \$60,000	A BARKER 89-NP-179	\$60,000 01/05/89 \$60,000
INTENSE ELECTRON BEAM CYCLOTRON MASERS WITH MICROSECOND PULSE LENGTH UNIV OF MICHIGAN	GILGENBACH	R 03/05/89 \$59,848	A BARKER 89-NP-181	\$59,848 01/09/89 \$59,848
SUPPORT FOR THE FORTY-SECOND ANNUAL GASECLS ELECTRONICS CONFERENCE SRI INTERNATIONAL	HUESTIS	N 04/05/89 \$8,500	A BARKER 89-NP-188	\$8,500 01/09/89 \$8,500
MICROWAVE EMISSION FROM RELATIVISTIC ELECTRON BEAMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	BEKEFI	R 19/05/89 \$120,000	A BARKER 89-NP-193	\$120,000 01/11/89 \$120,000
ANOMALOUS PLASMA ABSORPTION OF ELECTROMAGNETIC RADIATION NAVAL RESEARCH LABORATORY	ROWLAND	N 25/05/89 \$2,265	A BARKER 89-NP-197	\$2,265 01/06/89 \$2,265
COMPUTER SIMULATIONS OF RADIATION GENERATION FROM RELATIVISTIC ELECTRON BEAMS UNIV OF CALIFORNIA	LIN	R 09/06/89 \$120,000	A BARKER 89-NP-202	\$120,000 01/10/89 \$120,000
COMPACT MILLIWATER WAVE DEVICES: DIELECTRIC LOADED CARM, HIGH VOLTAGE CARM, SLOW WAVE CRM AND HIGH HARMONIC GYROTRON UNIV OF CALIFORNIA	NEVILLE	R 27/06/89 \$100,000	A BARKER 89-NP-209	\$100,000 01/12/89 \$100,000

REPORT DATE 07/1/89

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCES

PAGE 2

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOY AMT
TERMOLECULAR ASSOCIATION AND LASER-ASSISTED ELECTRON-(EXCITED) ATOM COLLISIONS GEORGIA TECH RESEARCH CORPORATION	FLANNERY H.	R 12 03/04/89 \$111,174	A KELLEY 89-NP-156	\$111,174 01/07/89 \$111,174
LIGHT FROM THE EXCITATION OF GASES WITH POSITIVE IONS UNIV OF ARIZONA	BASHKIN STANLEY	N 36 03/04/89 \$328,870	KELLEY 89-NP-157	
SPIN-POLARIZED ELECTRON SCATTERING FROM TRANSITION METAL ATOMS NATIONAL INST. OF STANDARDS & TECHNOLOGY	MCCLELLAND JABEZ	N 36 03/04/89 \$232,300	KELLEY 89-NP-158	
PHYSICS OF EXOTIC ATOMS UNIV OF CINCINNATI	RUSSELL JAMES	N 24 04/04/89 \$86,841	KELLEY 89-NP-162	
SURFACE PRODUCTION OF IONS STEVENS INSTITUTE OF TECHNOLOGY	SEIDL MILOS	N 36 03/05/89 \$750,000	A KELLEY 89-NP-183	\$250,000 01/10/89 \$500,000
INELASTIC ELECTRON COLLISIONAL PROCESSES UNIV OF WISCONSIN	LIN C. L. LIN	R 12 04/05/89 \$167,751	KELLEY 89-NP-187	
VERY LOW ENERGY ELECTRON SCATTERING UNIV OF NORTH TEXAS	GOLDEN DAVID	N 36 04/05/89 \$408,864	KELLEY 89-NP-192	
VIBRATION-ROTATION INTERACTIONS IN SELECT MOLECULAR SYSTEMS UNIV OF NORTH TEXAS	ROBERTS JAMES	N 36 19/05/89 \$153,609	KELLEY 89-NP-194	
INVESTIGATIONS INTO THE MECHANISMS OF HYDROGEN ICN RECOMBINATION UNIV OF WESTERN ONTARIO	MITCHELL J.	R 24 08/06/89 \$110,824	KELLEY 89-NP-199	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
STRUCTURE AND DYNAMICS OF EXCITED ATOMS UNIV OF VIRGINIA	GALLAGHER THOMAS	R 12 15/06/89 \$180,202	KELLEY 89-NP-203	
INVESTIGATION OF PHOTONS EMITTED FROM ANTIPROTON ANNIHILATION UNIV OF VIRGINIA	THORNTON STEPHEN	N 12 20/06/89 \$12,246	KELLEY 89-NP-204	
PRECISION FREQUENCY METROLOGY USING LASER COOLED IONS NATIONAL INST. OF STANDARDS & TECHNOLOGY	WINELAND D. J.	N 12 21/06/89 \$165,000	KELLEY 89-NP-206	
THE 12 UM CONTRIBUTION OF NEARBY GALAXIES TO THE INFRAREC BACKGROUND UNIV OF VIRGINIA	THUAN TRINH	N 36 12/04/89 \$158,427	A RADOSKI 89-NP-164	\$28,876 01/08/89 \$158,427
STEPS TOWARD UNDERSTANDING THE SOLAR CYCNO UNIV OF HAWAII	LAGONTE BARRY	N 36 14/04/89 \$2,118,982	RADOSKI 89-NP-169	
A GLOBAL INVESTIGATION OF THE SOLAR CYCLE CALIFORNIA INSTITUTE OF TECHNOLOGY	ZIRIN [REDACTED]	N 36 14/04/89 \$2,880,598	RADOSKI 89-NP-170	
EXPERIMENTAL TESTS OF DYNAMO MODELS FOR THE SOLAR CYCLE: A PROPOSAL TO BUILT THE SOLAR DISK SEXTANT YALE UNIVERSITY	SOFIA SABATINO	N 36 14/04/89 \$3,026,375	RADOSKI 89-NP-171	
SHOCK WAVES IN CRONAL AND INTERPLANETARY SPACE CATHOLIC UNIVERSITY OF AMERICA	WHANG YUN	R 36 03/05/89 \$303,000	O RADOSKI 89-NP-186	
LARGE-SCALE VELOCITY FIELDS AND SMALL-SCALE MAGNETIC FIELDS DURING THE MAXIMUM OF SOLAR CYCLE 22 CALIFORNIA INSTITUTE OF TECHNOLOGY	MARTIN SARA	R 36 04/05/89 \$628,023	A RADOSKI 89-NP-190	\$210,828 01/10/89 \$628,023

REPORT DATE 07/17/89

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCES

PAGE 4

TITLE	TYPE	MONTHS	STATUS	INITIATE
TITLE (CONT.)	RECEIVED	PROGRAM MANAGER	START DATE	TOT AMT
INSTITUTION	AMOUNT	PROPOSAL #		
SOLAR VECTOR MAGNETIC FIELD RESEARCH	N 08/06/89	A RADOSKI	\$197,000	01/12/89
JOHNS HOPKINS UNIVERSITY	\$617,800	89-NP-200	\$617,800	
GAMMA-RAY LINES AND CONTINUUM EMISSIONS FROM SOLAR FLARES: DEVELOPMENT OF A PROTOTYPE AND INITIAL BALLOON FLIGHTS UNIV OF NEW HAMPSHIRE	N 23/06/89	R RADOSKI	\$197,000	01/12/89
RUST	\$543,189	89-NP-208	\$543,189	
PROPOSAL FOR NOVEL APPLICATIONS OF NONLINEAR PHASE CONJUGATION	N 03/04/89	SCHLOSSBER	\$197,000	01/12/89
HUGHES AIRCRAFT CO	\$427,940	89-NP-159	\$427,940	
PHOTON LOCALIZATION, BALLISTIC PROPAGATION, REFLECTION & SCATTERING IN RANDOM MILLILAYER DIELECTRIC & SEMICONDUCTOR THIN FILMS CITY COLLEGE - CUNY	N 03/04/89	SCHLOSSBER	\$197,000	01/12/89
ALFANO	\$481,554	89-NP-160	\$481,554	
NONLINEAR OPTICAL PHENOMENA AND FEMTOSECOND IMAGING	N 13/04/89	SCHLOSSBER	\$197,000	01/12/89
UNIV OF NEBRASKA	\$314,808	89-NP-165	\$314,808	
A NOVEL APPROACH FOR NEW RADIATION SOURCES BASED ON SOLIC STATE PLASMA INSTABILITIES	N 13/04/89	SCHLOSSBER	\$197,000	01/12/89
BOSTON COLLEGE	\$252,270	89-NP-167	\$252,270	
SHORT WAVELENGTH X-RAY LASING USING A COMPRESSED CHIRPED LASER	N 13/04/89	SCHLOSSBER	\$197,000	01/12/89
UNIV OF ROCHESTER	\$264,940	89-NP-168	\$264,940	
UNIVERSITY RESEARCH INITIATIVE PROGRAM FOR ULTRAVIOLET/EXTREME ULTRAVIOLET (LV/XUV) RESEARCH	N 13/04/89	SCHLOSSBER	\$197,000	01/12/89
DUKE UNIVERSITY	\$3,903,662	89-NP-168	\$3,903,662	
X-RAY OPTICS FOR SCIENCE AND TECHNOLOGY	N 14/04/89	SCHLOSSBER	\$197,000	01/12/89
UNIV OF CALIFORNIA	\$2,340,012	89-NP-172	\$2,340,012	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	INITIATE		STATUS PROGRAM MANAGER PROPOSAL #	TYPE/MONTHS RECEIVED AMOUNT	START DATE TOT AMT
SAMPLE/TORQUE MAGNETOMETER UNIV OF ARIZONA	MANSURIPUR	N	12 14/04/89 \$159,147	SCHLOSSBER 89-NP-173		
LABORATORY FOR X-RAY OPTICS UNIV OF ARIZONA	FALCC	N	36 18/04/89 \$1,265,000	SCHLOSSBER 89-NP-175		
EFFICIENCY OF THE BROAD-BAND EMITTING MATERIALS BOSTON UNIVERSITY	CHARLES ALEXANDER	N	36 24/04/89 \$384,576	SCHLOSSBER 89-NP-178		
SELF ENERGY APPROACH TO QUANTUM ELECTRODYNAMICS UNIV OF COLORADO	LEMPICKI BARUT	N	12 02/05/89 \$180,716	SCHLOSSBER 89-NP-180	D	
THEORY/ELECTROMAGNETIC WAVES PROPAGATING IN NONLINEAR ANISOTROPIC OPTICAL MATERIALS/ANALYTICAL SOLUTIONS TO MAXWELL EQUATIONS KENT STATE UNIVERSITY	MOROI DAVID	N	36 03/05/89 \$224,691	SCHLOSSBER 89-NP-182		
STUDIES OF ELECTROMAGNETIC COUPLING AT ULTRAHIGH INTENSITIES UNIV OF ILLINOIS	RHODES	N	12 03/05/89 \$200,000	SCHLOSSBER 89-NP-184		
CONFERENCE ON NONLINEAR OPTICS INST. OF ELECTRICAL & ELECTRONICS ENGRG	ROBERT	N	06 03/05/89 \$10,000	SCHLOSSBER 89-NP-185		
RESEARCH WITH SCANNING TIP MICROSCOPES UNIV OF ARIZONA	SARIC DROR	N	36 04/05/89 \$399,751	SCHLOSSBER 89-NP-189	A	\$45,000 15/09/89 \$397,751
US/USSR SYMPOSIUM ON THE PHYSICS OF OPTICAL PHENOMENA AND THEIR USE AS PROBES OF MATTER UNIV OF CALIFORNIA	MARALDIN ALEXEI	N	06 04/05/89 \$25,650	SCHLOSSBER 89-NP-191	D	

REPORT DATE 07/17/89

PROPOSAL STATUS REPORT (1 APR 89 - 30 JUN 89)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCES

PAGE: 6

TITLE	TYPE / MONTHS	STATUS	INITIATE
TITLE (CONT.)	RECEIVED AMOUNT	PROGRAM MANAGER	START DATE
INSTITUTION	AMOUNT	PROPOSAL #	TOT AMT
NONLINEAR LASER SPECTROSCOPY STUDIES OF SEMICONDUCTOR HETERO- STRUCTURES UNIV OF MICHIGAN	N 36 19/05/89 \$408,021	SCHLOSSBER 89-NP-195	
NONLINEAR DYNAMICS OF PHASE-LOCKED SEMICONDUCTOR LASER ARRAYS UNIV OF MICHIGAN	N 36 24/05/89 \$561,438	SCHLOSSBER 89-NP-196	
NONLINEAR OPTICAL STUDIES OF ULTRATHIN SILICIDE FILMS ON SILICON UNIV OF PENNSYLVANIA	N 36 09/06/89 \$269,729	SCHLOSSBER 89-NP-201	
UPCONVERSION PUMPED LASERS AND TUNABLE SOLID STATE SOURCE HUGHES RESEARCH LABORATORIES	N 36 21/06/89 \$600,062	SCHLOSSBER 89-NP-205	
FIFTH INTERNATIONAL SYMPOSIUM ON THE PRODUCTION & NEUTRALIZATION OF NEGATIVE IONS & BEAMS BROOKHAVEN NATIONAL LABORATORY	N 05 17/04/89 \$10,000	SMITH 89-NP-174	\$10,000 01/06/89 \$10,000
THE PHYSICS OF HIGH POWER SEMICONDUCTOR SWITCHES POLYTECHNIC UNIVERSITY	N 36 19/04/89 \$343,877	SMITH 89-NP-176	
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND RESOURCES (COMMITTEE ON GEODESY) NATIONAL ACADEMY OF SCIENCES	N 12 01/06/89 \$7,000	SMITH 89-NP-198	\$7,000 29/05/89 \$7,000
FUNDAMENTAL PROCESSES IN PARTIALLY IGNIZED PLASMAS STANFORD UNIVERSITY	R 24 21/06/89 \$456,354	SMITH 89-NP-207	\$220,262 01/10/89 \$456,354